路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

ERM

Environmental Permit No. EP-457/2013/C

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	**Yau Ma Tei East (HY/2014/08)**

Reference Document/Plan

~~Document~~/Plan to be ~~Certified~~/ Verified:	Construction Noise Mitigation Measure Plan
Date of Report:	- (Rev. 15.5)
Date received by IEC:	4 March 2021

Reference EP Condition

Environmental Permit Condition: 2.9

To further reduce the air-borne construction noise impacts on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J, the Permit Holder shall, no later than one month before the commencement of construction of the corresponding component(s) of the Project, submit to the Director for approval four hard copies and one electronic copy of an updated Construction Noise Mitigation Measure Plan (CNMMP). The plan shall include:-

(a) a schedule of construction works to be carried out at the works areas of the Project within 300m from the NSRs;
(b) an updated construction methodology of the construction works;
(c) an updated powered mechanical equipment (PME) list for the construction works;
(d) an updated proposal of air-borne construction noise mitigation measures for the Noise Sensitive Receivers as mentioned above, including the provision of noise barriers, enclosures;
(e) other initiatives proposed by the Permit Holder; and
(f) an updated prediction of noise levels in accordance with the above updated information and mitigation proposals in place.

Before submission to the Director, the CNMMP shall be certified by the ET and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report. The approved CNMMP shall be fully and properly implemented.

IEC Verification

I hereby verify that the above referenced ~~document~~/plan complies with the above referenced condition of EP-457/2013/C.

Ms Mandy To
Independent Environmental Checker

Date: 4 March 2021

Our ref: 0436942_IEC Verification Cert_YMTE_CNMMP_20210304.docx

Build King – SKEC Joint Venture

Central Kowloon Route Contract HY/2014/08

Yau Ma Tei East Section

Construction Noise Mitigation Measures Plan

Rev.15.5

Certified by: 

Position: Environmental Team Leader

Date: 4 March 2021

Contents

List of Appendices

PART A GENERAL

1.0 Background

1.1 Project Description

Central Kowloon Route (CKR) was proposed in the West Kowloon Reclamation Transport Study that a route in tunnel should be developed to link the West Kowloon Highway since 1990.

Highways Department (HyD) commissioned the Design and Construction Assignment for the Central Kowloon Route in June 1998. CKR is a dual 3-lane trunk road across central Kowloon linking the West Kowloon in the west and the proposed Kai Tak Development (KTD) in the east. The CKR will be about 4.7km long with an underground tunnel section of about 3.9km long, in particular, there will be an underwater tunnel of about 370m long in Kowloon Bay to the north of the To Kwa Wan Typhoon Shelter. It will connect the West Kowloon Highway at Yau Ma Tei Interchange with the road network at Kowloon Bay and the future Trunk Road T2 at KTD which will connect to the future Tseung Kwan O – Lam Tin Tunnel (TKO-LTT) and Cross Bay Link (CBL). CKR, Trunk Road T2 and TKO-LTT will form a strategic highway link, namely Route 6, connecting West Kowloon and Tseung Kwan O. Consultancy studies for Trunk Road T2, TKO-LTT and CBL have been commissioned by CEDD. In addition, 3 ventilation buildings, which will be located in Yau Ma Tei, Ho Man Tin and ex-Kai Tak airport area, are proposed to ensure acceptable air quality within the tunnel.

The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP-457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/C) was issued by EPD on 16 January 2017.

Build King - SKEC Joint Venture (BKSKJV) was commissioned by Highways Department as the appointed main contractor for Contract No. HY/2014/08: Central Kowloon Route – Yau Ma Tei East (YMTE).

The Works to be executed under this Contract included, but not exclusively, the following items:

- Construction of approximately 390m long cut-and-cover tunnel between Yau Cheung Road and Shanghai Street;
- Construction and subsequent handover of Yau Ma Tei Access Shaft for facilitating the access and using by the contractor of CKR – Central Tunnel contract for the construction of tunnelling works of CKR;
- Construction and maintenance of a composite building for the temporary Public Library cum Jade Hawker Bazaar and a building for the temporary Maternal and Child Health Centre;
- Re-provisioning of a Methadone Clinic in the Yau Ma Tei Jockey Club Polyclinic Building;
- Demolition of the existing Yau Ma Tei Multi-storey Carpark Building, the existing Yau Ma Tei Specialist Clinic Extension Building and the existing Yau Ma Tei Jade Hawker Bazaars;
- Demolition of existing Subway No. KS55 and ancillary buildings of existing Yau Ma Tei Police Station;
- Design and construction of the Noise Barrier Works
- Demolition and re-provisioning of a section of Gascoigne Road Flyover (GRF) between Nathan Road and Ferry Street. Implementation of temporary measures for maintaining the normal operation of the GRF during the contract period;
- Other civil works

A Site Layout showing the site boundary is shown in **Appendix A**.

1.2 Requirements for Construction Noise Mitigation Measure Plan (CNMMP)

According to the condition 2.9 of the EP-457/2013/C, the Permit Holder shall, no later than one month before the commencement of construction of the Project, submit to the Director of Environmental Protection (DEP) for approval four hard copies and one electronic copies of an update Construction Noise Mitigation Measure Plan (CNMMP) to further reduce the air-borne construction noise impacts on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J. In view of the worksites location under this contract and their respective distance to the above NSRs (300 meters study area according to the EIA methodology), predicted noise impact on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1 are studied in this CNMMP, while that of Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J would be assessed in other Sections of the Central Kowloon Route according to their worksite location.

The CNMMP shall include:

- A schedule of construction works to be carried out at the works areas of the Project within 300m from the Noise Sensitive Receivers (NSRs);
- An updated construction methodology of the construction works;
- An updated powered mechanical equipment (PME) list for the proposed construction works;
- An updated proposal of air-borne construction noise mitigation measures for the Noise Sensitive Receivers as mentioned above, including the provision of noise barriers, enclosures;
- Other initiatives proposed by the Permit Holder; and
- An updated prediction of noise levels in accordance with the above updated information and mitigation proposals in place.

Before submission to the Director, the CNMMP shall be certified by the ET and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report (Register No. AEIAR-171/2013).

2.0 Description of Construction Works in the Study Area

2.1 Noise Sensitive Receivers

According to Further Environmental Permit No. FEP-02/457/2013/C for CKR-YMTE, 4 Noise Sensitive Receivers (NSRs) would be addressed in this CNMMP. The 4 NSRs are Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-N1A), Tak Cheong Building (W-N8A), Prosperous Garden Block 1 (W-N25A) and The Coronation Tower 1 (W-P11).

The list of NSRs are shown in **Table 2.1**. The Layout plans of the works area showing the NSRs and their distance to the works area are provided in **Appendix A and Appendix D**.

Table 2.1 List of Noise Sensitive Receivers (NSRs)

NSRID	NSR Description	Use[1]	Criterion, dB(A)[2]	Maximum Construction Noise Levels, dB(A) [3]		Noise exceedance, dB(A) [3]
				Unmitigated	Mitigated	
W-N1A	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	E	70(65)	82	70 (69)	-(4)
W-N8A	Tak Cheong Building	R	75	95	82	7
W-N25A	Prosperous Garden Block 1	R	75	93	81	6
W-P11	The Coronation (West Façade)	R	75	88	77	2

Notes:

[1] R- Residential; E- Educational Institution; GIC- Government, institution and community

[2] Values in parentheses indicate the noise criterion during examination period of educational institution

[3] Data are extracted from Tables 5.13 and 5.16 of approved EIA Report"

2.2 Construction Methodology

The proposed construction methodology is generally following that presented in Section 3.5 of the approved CKREIA Report (Register No. AEIAR-171/2013). The tunnel section of Yau Ma Tei (from Hoi Wang Road to Shanghai Street) will be constructed by 'top-down' cut-and-cover method to reduce impact upon the surrounding area, pedestrians and road traffic.

A breakdown of the major construction activities in sequence to be carried out within the contract are provided in **Appendix B**.

2.3 Updated Preliminary Construction Programme

The updated preliminary construction programme prepared by BKSKJV has been used in this CNMMP and has been presented on a monthly basis for the duration of the construction works in corresponding worksites.

Since the commencement of the project has been delayed for 3 years., the potential concurrent projects have been reviewed. Upon reviewing the concurrent projects close to YMTE, other than YMTW section under CKR itself, there is no additional potential concurrent projects which would have cumulative construction noise impacts on the NSRs during the construction phase. The concurrent effect on noise impact contributed by YMTW section is also considered.

The construction schedule has been adjusted such that to minimize concurrent construction works to be carried out in the vicinity as far as practicable. The updated preliminary construction programme is provided in **Appendix B**.

2.4 Updated Powered Mechanical Equipment List

The updated Powered Mechanical Equipment (PME) list for the construction works is provided in **Table 2.2**. The Sound Power Levels (SWL) for the PMEs have been adopted from EPD's Technical Memorandum on Noise from Construction Work Other than Percussive Piling (GW-TM), list of SWLs of other commonly used PME or British Standard 5228 - Part 1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites. It should be noted that the PMEs proposed are

commonly available in Hong Kong market. The PMEs to be adopted for individual construction activities for this contract are provided in **Appendix C**.

Taking into account the latest construction programme and PME inventory, extra quiet PME for dump truck, roller and vibratory are proposed in addition to the quiet PME proposed in the Approved CKR EIA Report. The quiet PME as listed in Table 2.2 could be found in Hong Kong. However, if the exact model specified in the references of the listed quiet PME are not available during the construction period, the model with SWL not higher than the listed SWL shall be adopted. BKSKJV has also confirmed that the programme and plant inventory are reasonable and practicable for completing the works of CKR-YMTE within the scheduled timeframe.

Table 2.2: List of Updated Powered Mechanical Equipment (PME)

PME Description	**TM Ref./ Other Ref. [(a)]/ BS 5228 Ref. [(b)]/ QPME ID Code [(c)]**	**Unit Sound Power Level, SWL dB(A)**
Air Compressor	CNP003	104
Asphalt Paver	EPD-01226	104
Bar Bender and Cutter	CNP021	90
Bored Piling Crane mounted auger	BS D4-37	111
Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110
Bulldozer	CNP030	115
Compactor, vibratory	CNP050	105
Concrete Core	CNP042	117
Concrete Lorry Mixer	CNP044	109
Concrete pump	CNP047	109
Concrete crusher, excavator mounted	CNP055	103
Crane Mobile	BS D7-114	101
Dump Truck with Grab	CNP069	105
Excavator/Loader, Wheeled/Tracked	EPD-09560	99
Forklift	XRL - HK Section EIA	104
Generator	CNP103	95
Grout mixer	CNP105	90
Grout pump	CNP106	105

Lorry	CNP142	105
Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105
Piling, large dia bored, oscillator	CNP165	115
Poker, Vibratory, Hand Held	CNP173	102
Rock Crusher	Reference to approved West Island Line EIA report	118
Rock drill, crawler mounted (pneumatic)	SIL EIA	108
Rock Drill	SIL EIA	108
Road Roller	EPD-01183	97
Saw, Circular Wood	BS D7-79	103
Saw, Concrete	CNP203	115
Saw, Wire	CNP205	101
Tracked crane	BS D7-114	101
Ventilation Fan	CNP241	108
Water Pump, Submersible (Electric)	CNP283	85

Note:

(a) Other references refer to the approved West Island Line EIA Report/South Island Line (East) EIA Report/Hong Kong Section of Guangzhou – Shenzhen – Hong Kong Express Rail Link/SWLs of other commonly used PME provided in the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

(b) BS 5228 Ref. refers to British Standard 5228 - Part 1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites

(c) QPME ID Code refer to Quiet Powered Mechanical Equipment from EPD's website http://www.epd.gov.hk/cgi-bin/npg/qpme/search_gen.pl?lang=eng

3.0 Noise Assessment and Proposed Mitigation Measures

3.1 Assessment Methodology and Assumptions

The scope of this plan does not cover all the construction works of West Portion of CKR Project. This Plan only includes the noise assessment for CKR-YMTE's works area and the remaining works areas shall be addressed by another CKR contract namely CKR-YMTW. However, the cumulative effect from YMTW will be considered in the noise assessment of this Plan. Worksite S13 is located within the site boundary of both YMTE and YMTW. However, the construction of landscape deck at worksite S13 will be carried out by YMTW only and thus the noise assessment is not included in this plan, but the noise assessment is included in the cumulative effect of this plan. Besides, according to the contract information provided by HyD, some construction activities at worksites are different from those mentioned in EIA report or not included in the scope of works of YMTE contract. Worksite S9 is construction of Community Liaison Centre for CKR project and worksite S7 is the construction of Temporary Library & Temporary Jade Market. Activities in worksites S48 is the construction of Ferry Street Subway, which is not the scope of works under YMTE contract as per the contract information.

The construction noise assessment has been carried out in accordance with the methodology used in the approved CKR EIA Report (Register No. AEIAR-171/2013). Notional source distances adopted in the calculation has made reference to those used in the CKR EIA Report (Register No. AEIAR-171/2013) except worksite S3, S4, S5 and S13 according to the updated construction layout as provided in **Appendix A**. The updated distance between NSRs and worksite are tabled in **Appendix D**.

The percentage on-time for each PME has been estimated individually for each construction activity to ensure practicality and is consistent with assumptions made in CKR EIA Report (Register No. AEIAR-171/2013).

The BKSKJV has confirmed that the programme and plant inventory are reasonable and practicable for completing the Works Contract within the scheduled timeframe.

All mitigation measures and their effectiveness proposed in the CKR EIA Report (Register No. AEIAR-171/2013) including the use of temporary movable noise barrier and enclosure (with sufficient ventilation) for relatively static plant, acoustic mat and quiet plant have been considered in this CNMMP. The use of quiet plant associated with construction work is prescribed in British Standard

"Code of practice for noise and vibration control on construction and open sites, BS5228" which contains the SWLs for specific quiet PME.

Central Kowloon Route – Yau Ma Tei West (CKR-YMTW) is identified to be concurrent projects of the works at CKR-YMTE. CKR-YMTW commenced in November 2018 and is estimated to complete in October 2024. Cumulative construction noise impact from construction activities of CKR-YMTW is addressed in this CNMMP and detail assessment is shown in Appendix C. For the construction works for two noise enclosures at Gascoigne Road Flyover, they will be carried out under our contract.

3.2 Proposed Mitigation Strategy and Noise Assessment Results

The mitigation measures proposed in the approved CKR EIA report (Register No. AEIAR-171/2013) have been adopted.

Movable temporary noise barriers that can be located close to noisy plant and be moved concurrently with the plant along a worksite can be very effective for screening noise from NSRs. A typical design which has been used locally is a wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining. This measure is particularly effective for low level zone of NSRs. A cantilevered top cover would be required to achieve screening benefits at upper floors of NSRs. Movable barriers will be used for some PME (e.g. asphalt paver, excavator etc). It is anticipated that suitably designed barriers could achieve at least 5 - 10dB(A) reduction. For a conservative assessment, only a reduction of 5dB(A) is assumed. The use of enclosure (with sufficient ventilation and surface mass at least 10 kg/m2) has been considered in this assessment to shelter relatively static plant including air compressor, generator. The enclosures barriers can provide about 10dB(A) noise reduction. For ventilation fan, enclosure namely SilentCUBE would be used as noise mitigation and -15 dB(A) would be applied in the assessment for conservatism. The details of the noise enclosure are showed in **Appendix F**. BKSKJV shall ensure the practicability to block the line-of-sight for nearby NSRs during the usage of noise barriers.

The construction activities to be carried out under traffic deck or underground, will adopt -20dB(A) screening effect has PMEs, except ventilation fan will be located at grade.

For one of the mucking out points in CKR project, the temporary full noise enclosure will be constructed after the access shaft completion to screen off the future construction activities for tunnelling works with the noise reduction of -15dB(A).

For the demolition works of the Yau Ma Tei Mulit-storey Carpark Building, temporary noise barrier will be erected at the floor to be demolished surrounding the 4 sides of the building. The temporary noise barriers can provide about 10dB(A) noise reduction. Details of the acoustic noise barriers are shown in **Appendix E**.

The predicted noise levels at identified NSRs after implementation of mitigation measures, including quiet plants, noise enclosure/shed, movable barriers and acoustic fabric are shown in **Appendix C** and summarised in Table 3.1. The mitigation measures and noise control design will be implemented by the frontline staff of the contractor, supervised by the Environmental Officer/ Site Engineer and checked by the ET, IEC and RE during routine site inspection under the EM&A programme. Some of the construction activities will not involve PME and thus are not shown in noise assessment such as worksites S17 and S31 which are decanting of Library and Government Offices in MSCB and YMT Police Station respectively.

Site records, including photos and measurement reports, for substantiating proper implementation of the Plan shall be well kept by the Contractor on site for review/checking by ET/IEC/EPD at any time.

The implementation schedule of proposed mitigation measures is showed in Appendix G.

Table 3.1 Summary of Noise Assessment Result

NSR ID	**NSR Description**	**Predicted Max. Noise Level[(a)], dB(A)**	**Noise Criteria[(b)], dB(A)**	**Exceedance, dB(A))**	**Duration (month) of Exceedance[(c)]**
W-N1A	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	67(**67**)	70(65)	-(2)	-(2)
W-N8A	Tak Cheong Building	**81**	75	6	26
W-N25A	Prosperous Garden Block 1	**80**	75	5	3
W-P11	The Coronation	75	75	-	-

Note:

(a) Bolded values mean exceedance of the relevant noise criteria.

(b) Values in parentheses indicate the noise criterion during examination period of educational institution.

(c) Typical examination period is in May, June, November and December. The exceedance duration is subject to the examination schedule when available.

With the implementation of the above-mentioned mitigation measures, residual impacts exceeding the construction noise criterion are still expected. The comparison of residual impacts between CKR EIA Report and this CNMMP is shown in Table 3.2.

Table 3.2 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Residential Premises)

NSR	EIA Prediction					CNMMP Prediction				
	Max. Noise Level, dB(A)	Duration (month) of Exceedance				Max. Noise Level, dB(A)	Duration (month) of Exceedance			
		1-4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)		1-4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)
W-N8A	82	26	5	4	2	81	19	4	3	-
W-N25A	81	6	-	3	-	80	-	3	-	-
W-P11	77	4	-	-	-	75	-	-	-	-

Table 3.3 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Examination Period)

NSR	EIA Prediction (during exam period)								CNMMP Prediction (during exam period)							
	Duration (month) of Exceedance								Duration (month) of Exceedance							
	1 dB(A)	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	≥8 dB(A)	1 dB(A)	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	≥8 dB(A)
W-N1A	2	3	-	1	-	-	-	-	-	2	-	-	-	-	-	-

Table 3.4 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Normal Period)

NSR	EIA Prediction (during normal period)								CNMMP Prediction (during normal period)							
	Duration (month) of Exceedance								Duration (month) of Exceedance							
	1 dB(A)	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	≥8 dB(A)	1 dB(A)	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	8 dB(A)
W-N1A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

When comparing with the predicted noise impact in the EIA study, the residual impacts predicted in this CNMMP would either remain unchanged or reduced in respect of both exceedances and duration with the implementation of mitigation measures proposed in this CNMMP. Number of months of Examination periods for Yau Ma Tei Catholic Primary School (Hoi Wang Road) predicted to exceed the criterion for school examination periods was reduced from 6 from EIA report to 2 from this CNMMP. Number of months for Tak Cheong Building (W-N8A) predicted to experience the max. noise level (i.e. 82 dB(A)) was reduced from 2 months from EIA report to nil from this CNMMP. The duration (month) of exceedance would also be reduced from 37 from EIA report to 26 from this CNMMP. The predicted max. noise level at Prosperous Garden Block 1 (W-N25A) would be reduced

from 81 dB(A) from EIA report to 80 dB(A) in this CNMMP and the during of exceedance would be reduced from 9 months from EIA report to 3 months from this CNMMP. Number of months for The Coronation Block 1 (W-P11) predicted to exceed the noise criteria was reduced from 4 months from EIA report to nil from this CNMMP.

Specific measures will be implemented for Tak Cheong Building (W-N8A), which is predicted to experience the most severe exceedance for the longest period. BKSKJV will well plan the working programme for those work sites close to W-N8A and try the best to shorten the working hours at weekends or avoid to carry out noisy activities at sensitive hours (0700 – 0900 & 1700 – 1900).

To minimize noise impact generated by frequent construction plants mobilization, the total no. of construction plants parking at worksite S18 and S35 will be higher than those in EIA prediction and last version of CNMMP. However, the percentage on-time for most of the construction plants are no more than those in last version of CNMMP.

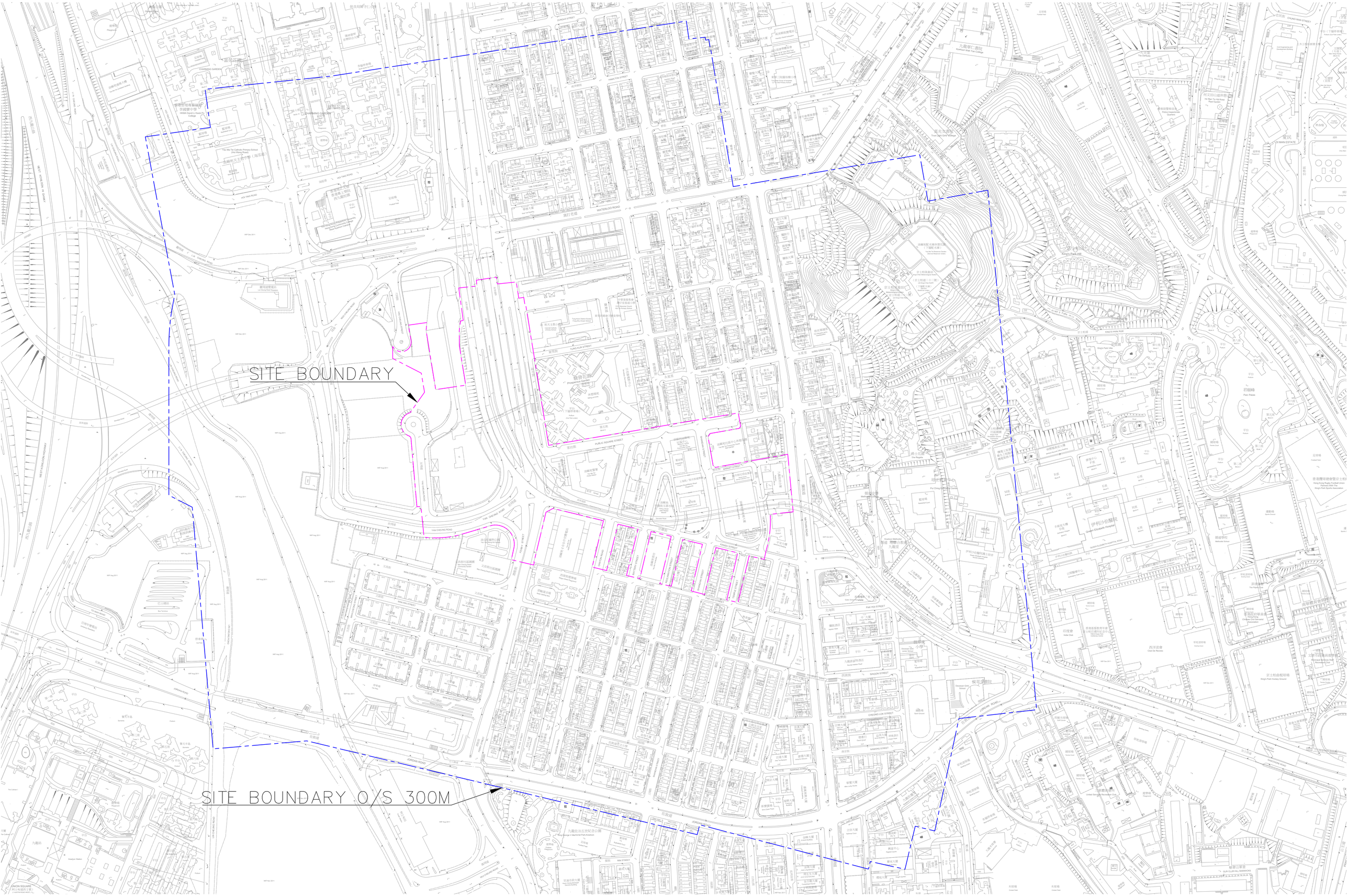
4.0 Conclusion

The CNMMP has predicted the construction noise impact from CKR-YMTE to identified NSRs. This plan has taken into account the updated information on PMEs and works programme which would be adopted by BKSKJV. With the implementation of mitigation measures in form of quiet plants, barrier and acoustic fabrics, the construction noise impact are predicted would either remain unchanged or to be reduced in respect of both exceedances and duration.

Further review and update will be performed with a frequency of at least every 6 months during the construction phase and liaison with affected parties is recommended to minimise the construction noise impacts as far as practicable.

Appendix A

Site Layout and NSR Locations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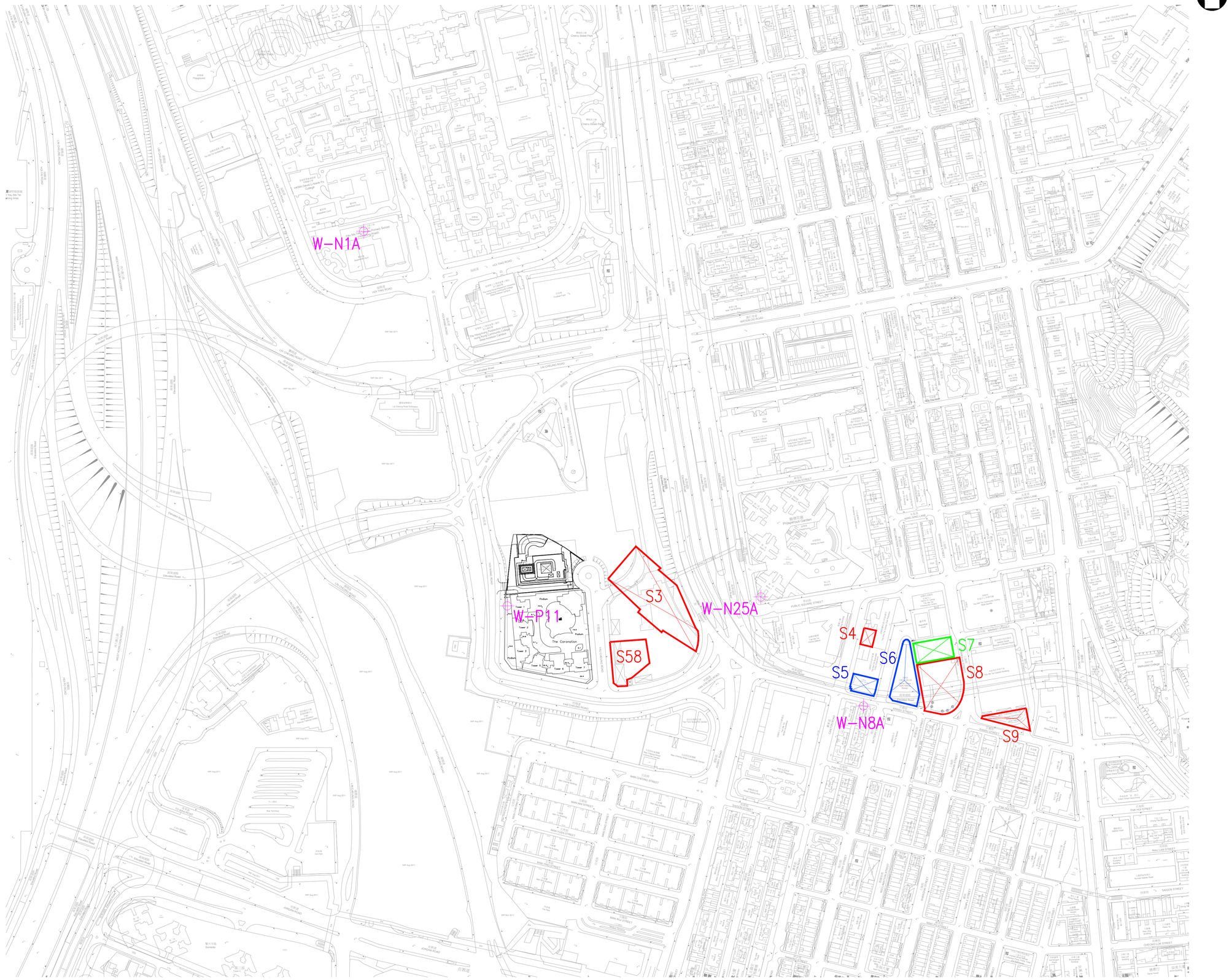
SITE BOUNDARY O/S 300M



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A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18
Rev. 修訂	Description 內容摘要	By 設計	Date 日期

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 1)

Drawing no. 圖紙編號	BKSK/YMTE/C/10001	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 複核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

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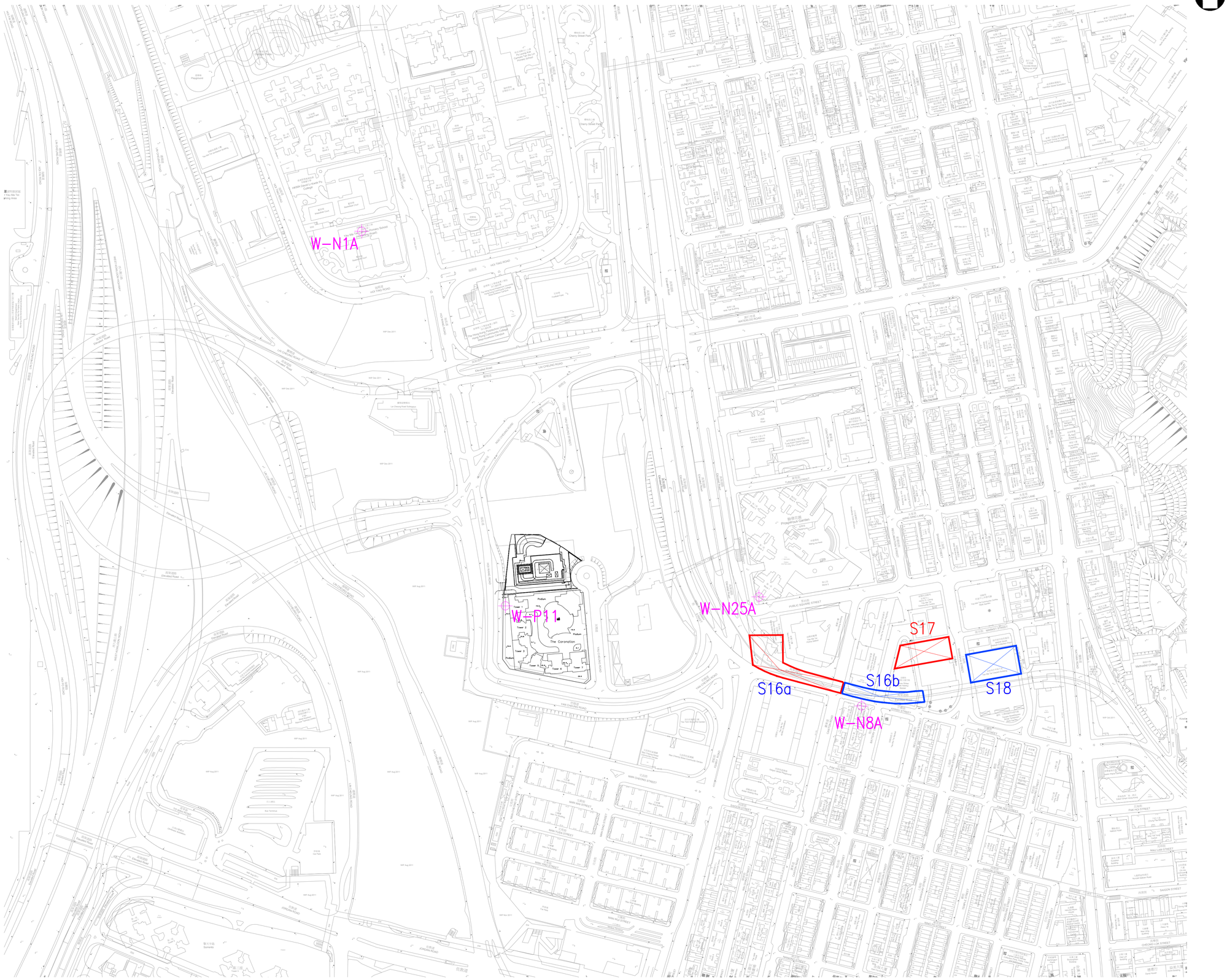
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10001B.dwg



Rev. 修訂	Description 內容摘要	By 設計	Date 日期
B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 2)

Drawing no. 圖紙編號	BKSK/YMTE/C/10002	Rev. 修訂	B
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Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

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MAJOR WORKS PROJECT MANAGEMENT OFFICE

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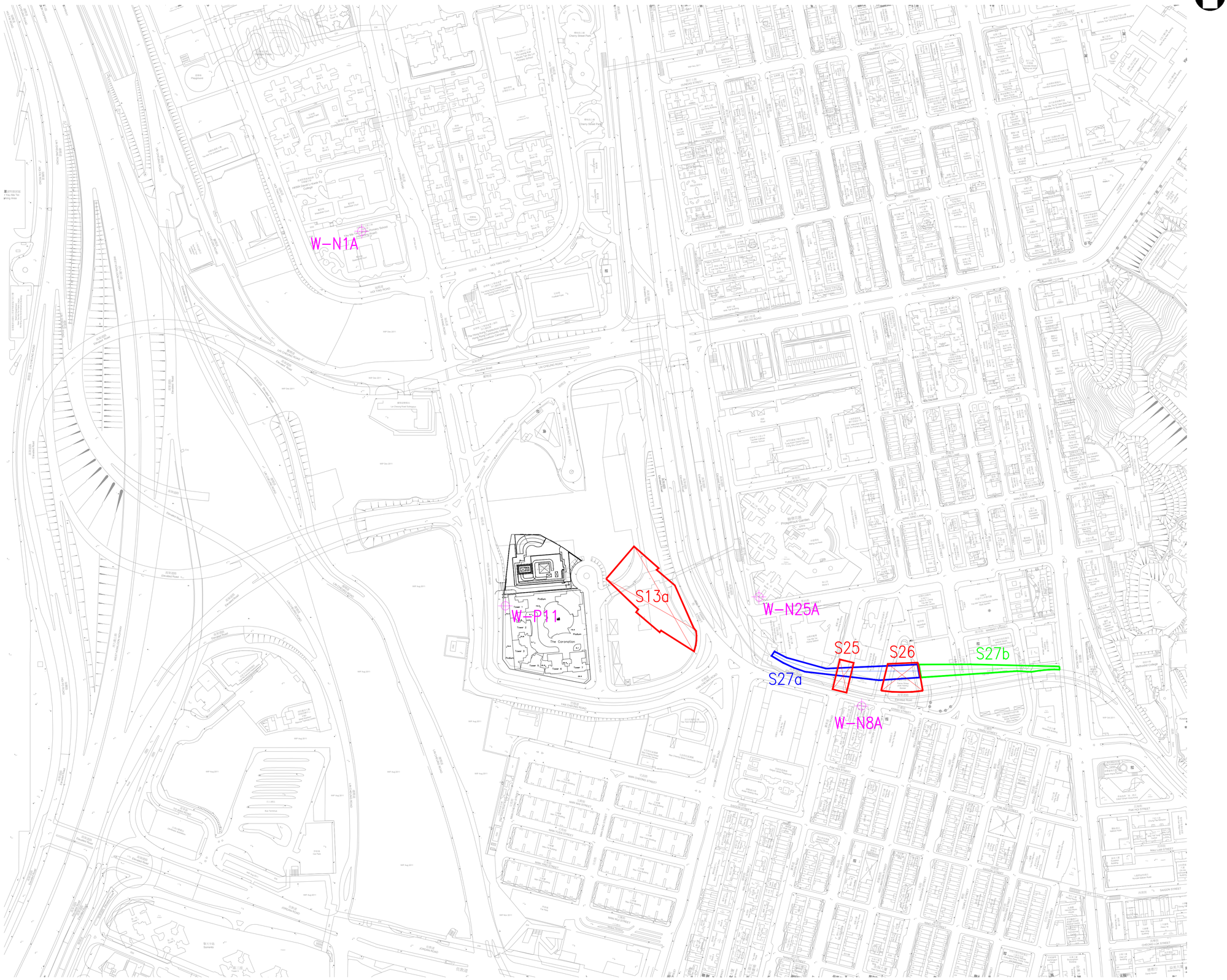

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B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

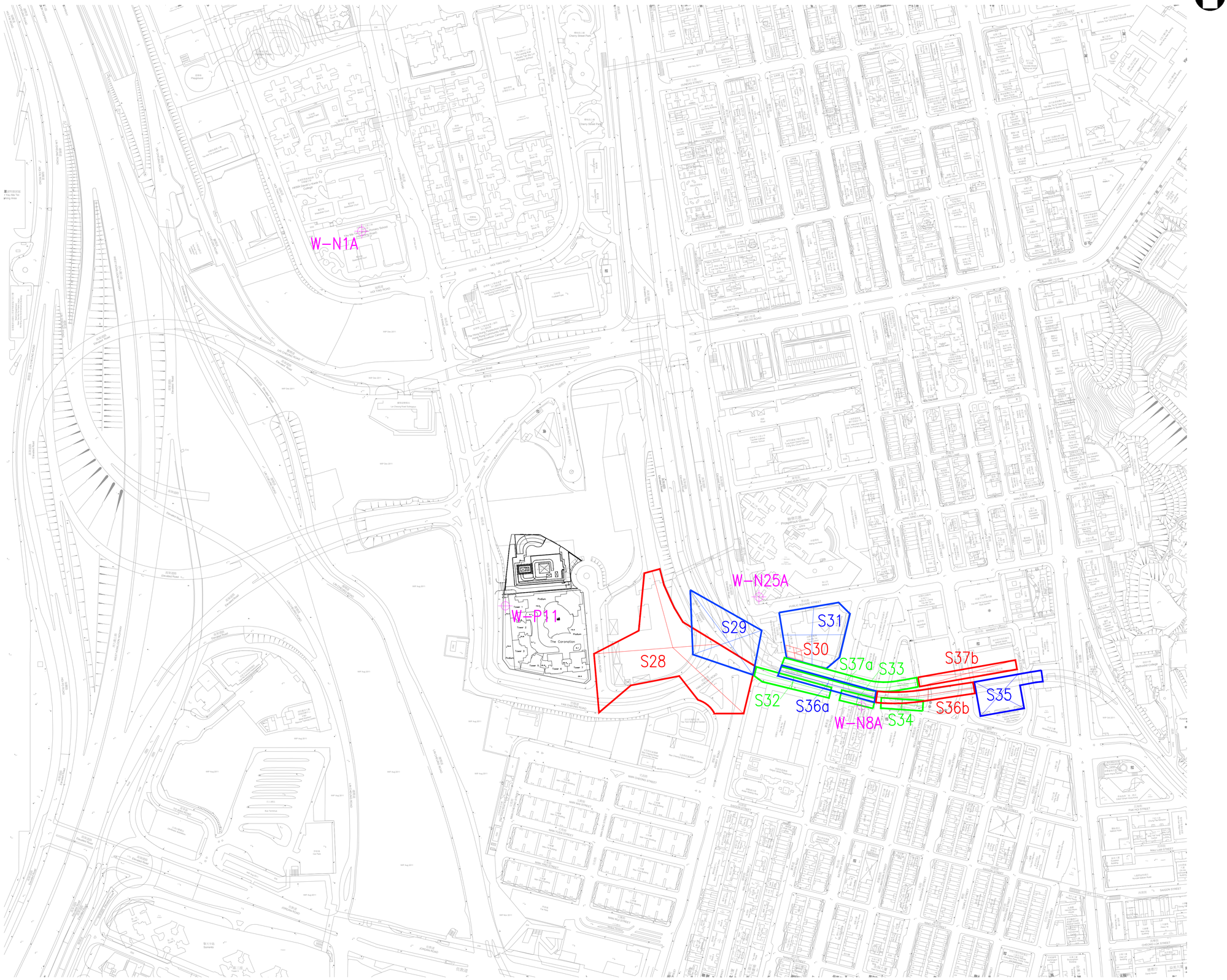
Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 3)

Drawing no. 圖紙編號	BKSK/YMTE/C/10003	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10003B.dwg



Rev. 修訂	Description 內容摘要	By 設計	Date 日期
B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

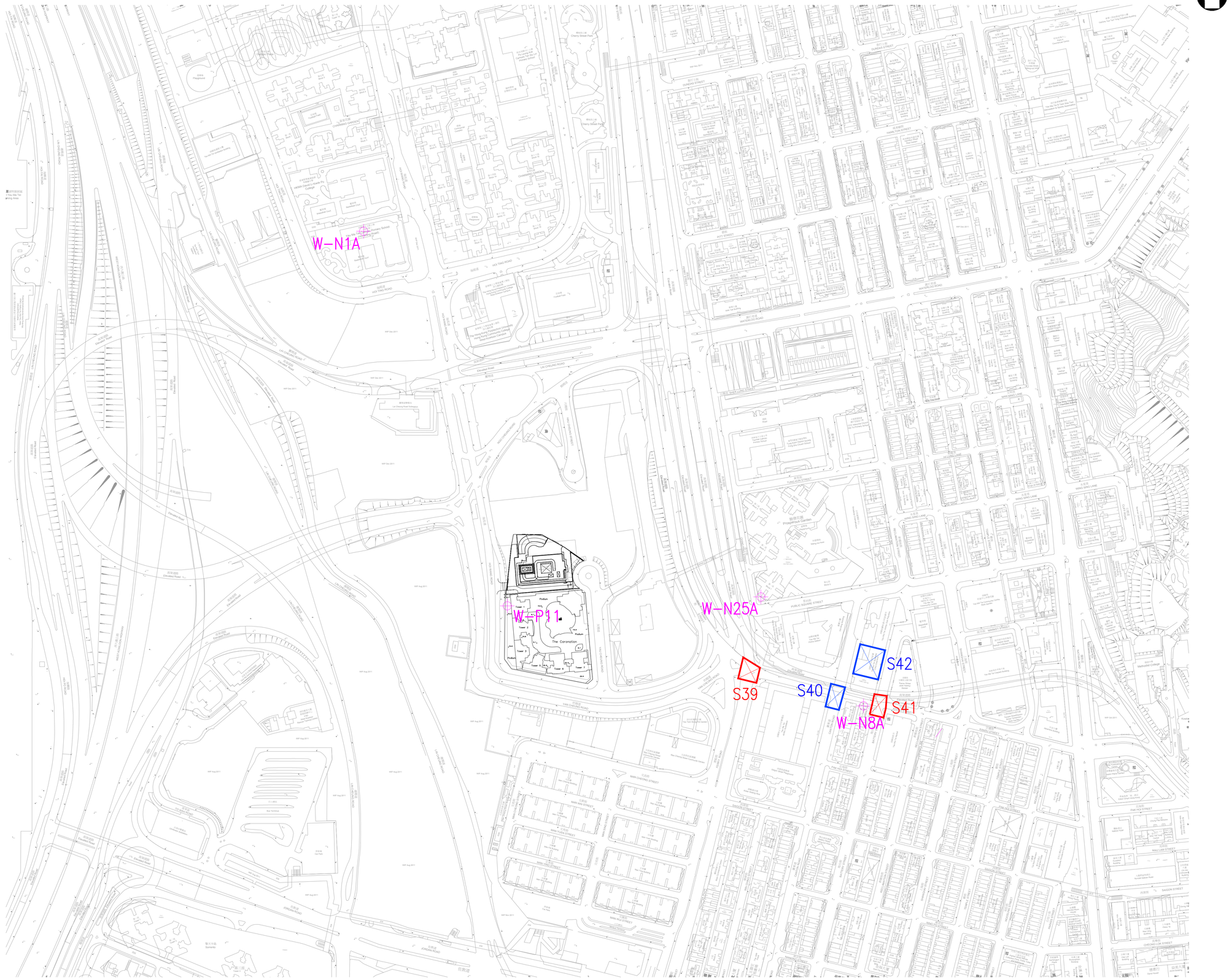
Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 4)

Drawing no. 圖紙編號	BKSK/YMTE/C/10004	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10004B.dwg



Rev. 修訂	Description 內容摘要	By 設計	Date 日期
B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

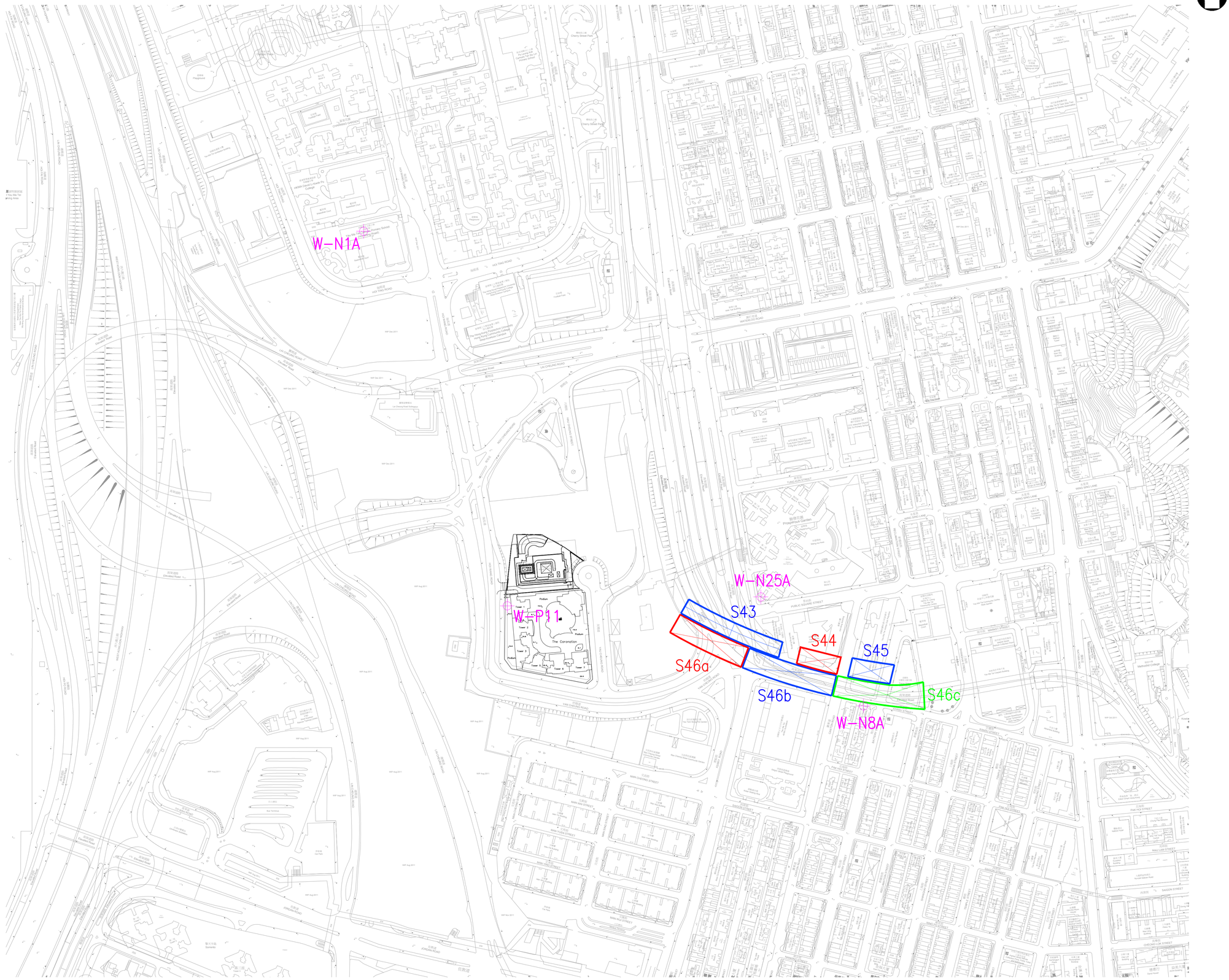
Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND NOTIONAL SOURCES
(WEST PORTION – STAGE 5)

Drawing no. 圖紙編號	BKSK/YMTE/C/10005	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10005B.dwg



B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18
Rev. 修訂	Description 內容摘要	By 設計	Date 日期

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

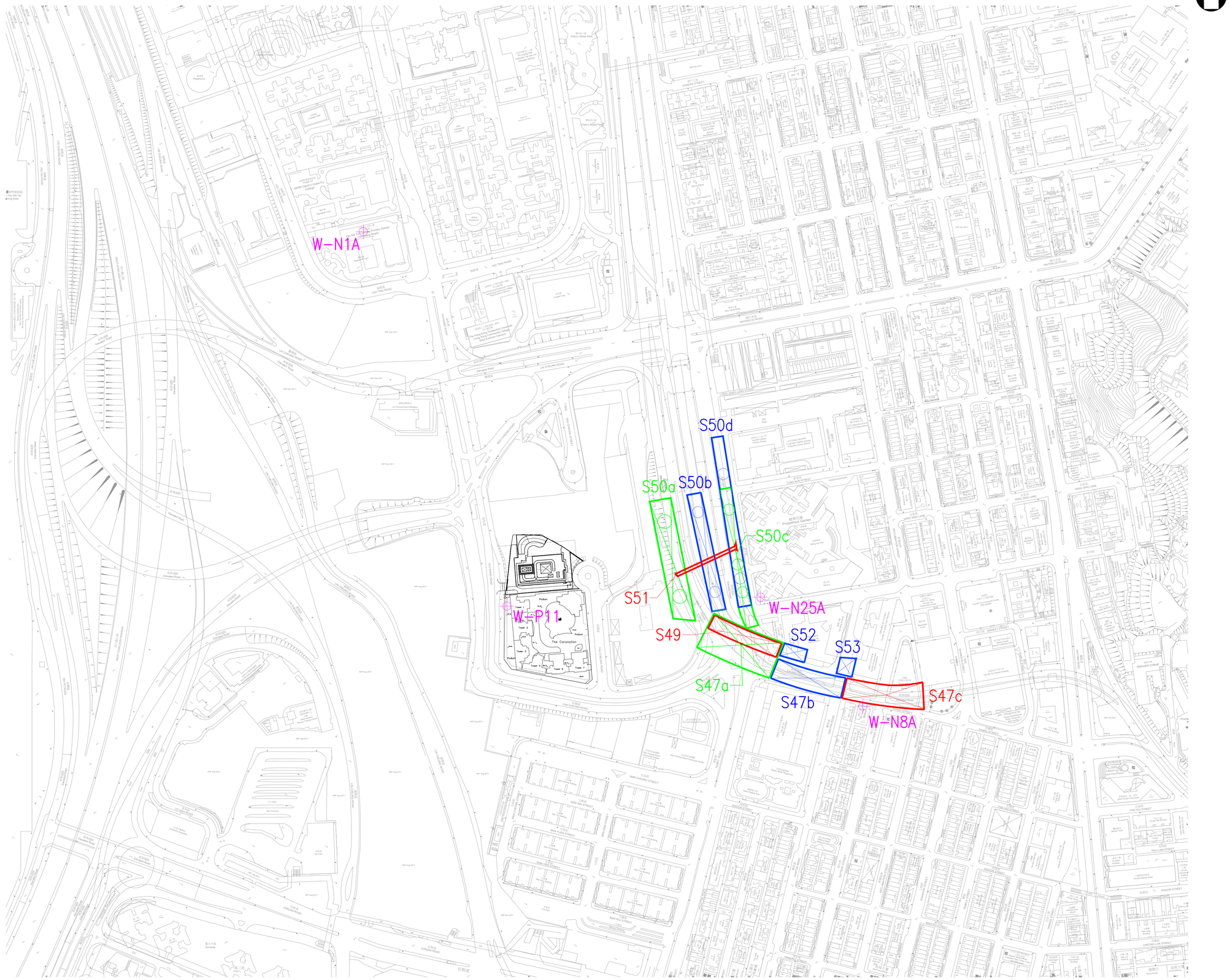
Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 6)

Drawing no. 圖紙編號	BKSK/YMTE/C/10006	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10006B.dwg



Rev. 修訂	Description 內容摘要	By 設計	Date 日期
B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route - Yau Ma Tei East

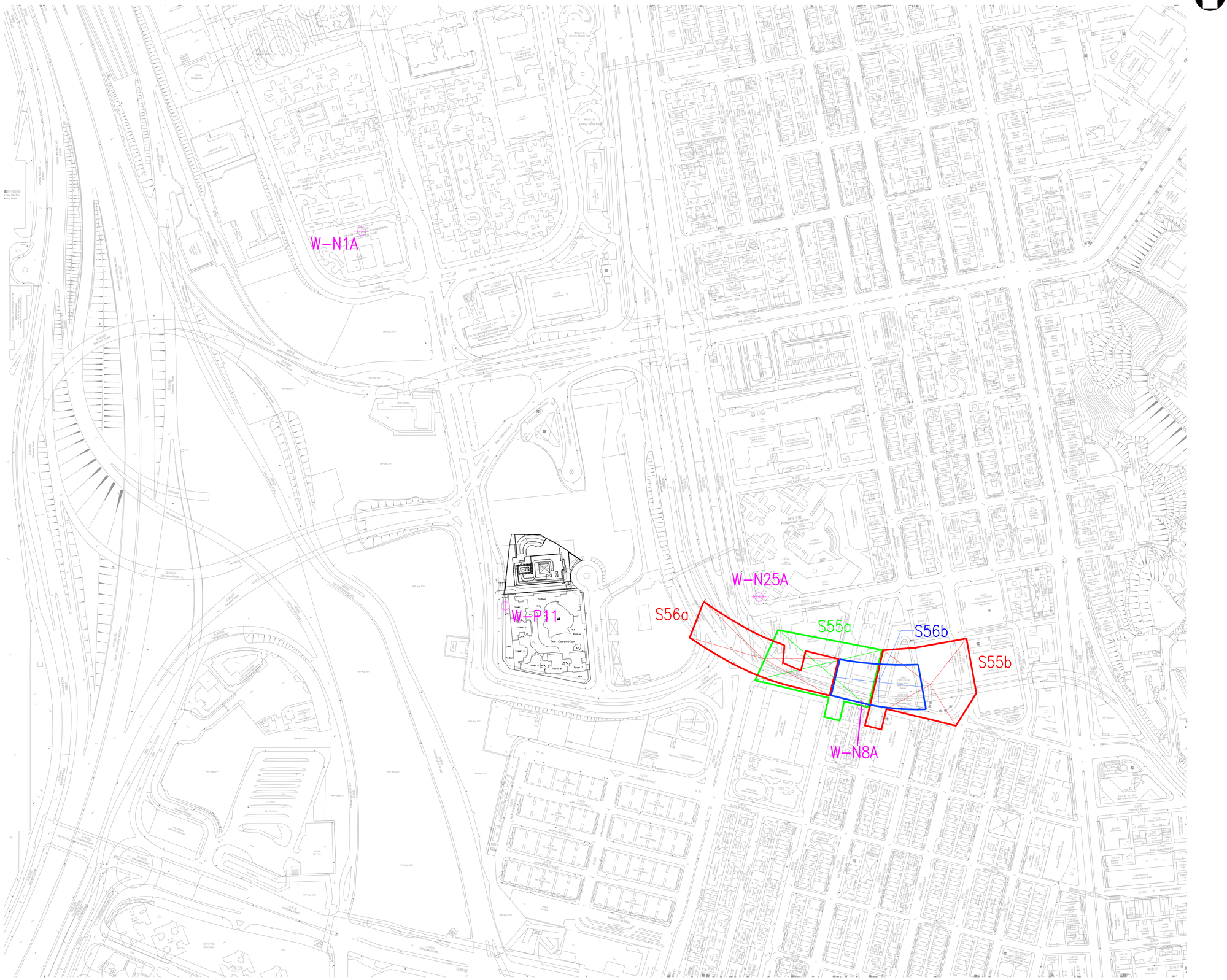
Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND NOTIONAL SOURCES
(WEST PORTION – STAGE 7)

Drawing no. 圖紙編號	BKSK/YMTE/C/10007	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10007B.dwg



Rev. 修訂	Description 內容摘要	By 設計	Date 日期
B	SUBMISSION	LL	01/21
A	SUBMISSION	LL	03/19
–	SUBMISSION	LL	06/18

Contractor 承建商

BUILD KING - SKEC JOINT VENTURE

Project title 工程名稱

Contract No. HY/2014/08

Central Kowloon Route -
Yau Ma Tei East

Drawing title 圖紙名稱

APPENDIX
LOCATIONS OF NSR'S AND
NOTIONAL SOURCES
(WEST PORTION – STAGE 8)

Drawing no. 圖紙編號	BKSK/YMTE/C/10008	Rev. 修訂	B
Drawn By 繪圖	PC	Checked By 覆核	LL
Approved By 批准人	AT		
Scale 比例	1:2000 @A1 1:4000 @A3	Status 階段	SUBMISSION

路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : Chan Po Wah, Power
Filename : YMTE_West Portion_10008B.dwg

Appendix B

Updated Preliminary Construction Programme

HY/2014/08

Construction Programme

		2018												2019												2020												2021												2022												2023												2024											
Worksite	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post							▨																																																																													
S3	Construct Dwall and Traffic Deck - Diaphragm Walls								▨	▨	▨	▨																																																																										
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls											▨	▨	▨																																																																								
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls														▨																																																																						
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck															▨																																																																					
S4	Construction of Methodone Clinic				▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																																																																									
S5	Decant and demolish existing Jade Market																																				▨																																																
S6	Decant and demolish existing Jade Market																																				▨																																																
S7	Construction of Temporary Library & Temporary Jade Market - Foundation																	▨	▨	▨	▨	▨	▨																																																																		
S7	Construction of Temporary Library & Temporary Jade Market - Superstructure																							▨	▨	▨	▨																																																																	
S8	Construction of Western Access Shaft - Ex cavation of Diaphragm Walls				▨																																																																																			
S8	Construct Western Access Shaft - Concreting of Diaphragm Wall					▨																																																																																		
S8	Construct Western Access Shaft - Soil Excavation of Access Shaft																								▨																																																																
S8	Construct Western Access Shaft - Rock Excavation of Access Shaft																									▨	▨	▨																																																														
S8	Construct Western Access Shaft - Cast Bottom Slab																											▨																																																															
S9	Construct Community Liaison Centre				▨																																																																																			
S13a	Removal of Excavated Material through West End Portal																										▨	▨	▨																																																														
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post																						▨																																																																	
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																							▨	▨	▨	▨	▨																																																														
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																												▨																																																														
S16b	Construct Middle Dwall and Traffic Deck - Piling for King Post																														▨																																																														
S16b	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																																						▨	▨	▨	▨																																																						
S16b	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																																														▨																																																
S17	Decant Library and Government Offices in MSCB																																				▨																																																
S18	Demolish Multi-storey Carpark Buildking (partially)																																							▨	▨	▨	▨																																																					
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																									▨																																																								
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																														▨																																																	
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																									▨																																																									
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																														▨																																																	
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier																														▨	▨	▨	▨	▨	▨	▨																																																												
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck																																									▨	▨	▨																																																									
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																				▨	▨	▨	▨	▨	▨												
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier																																		▨	▨	▨	▨	▨	▨	▨																																																								
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck																																									▨	▨	▨																																																								
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres																																																																				▨	▨	▨	▨	▨	▨												
S28	Diversion of Ferry Street Junction																			▨	▨	▨																																																																					
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																							▨																																																																	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																							▨																																																																	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																								▨	▨	▨	▨																																																																
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																												▨																																																															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																													▨																																																												
S30	Underpinning Works for YMT Police Station - Grouting															▨	▨	▨	▨																																																																						
S30	Underpinning Works for YMT Police Station - Sokcet H Piling											|▨|																																																																									
S30	Underpinning Works for YMT Police Station - micro-piling																				▨	▨	▨	▨	▨	▨	▨																																																																	
S30	Underpinning Works for YMT Police Station - excavation																									▨	▨																																																																
S30	Underpinning Works for YMT Police Station - pipe piling																															▨	▨	▨	▨	▨	▨	▨	▨	▨																																																				
S30	Underpinning Works for YMT Police Station - tam grouting																																								▨	▨	▨																																																					
S30	Underpinning Works for YMT Police Station - Construct underpinning beam and slab																																											▨	▨	▨																																																					
S31	Decant YMT Police Station														▨	▨	▨																																																																										
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																														▨																																																	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																														▨																																																
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																													▨	▨																																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																														▨	▨																																																	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																															|▨|																																																								
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																							▨																																																													
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																								▨																																																												
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																									▨	▨	▨																																																								
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																												▨																																																							
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																														▨																																																	

Construction Programme

Worksite	Activity	2018												2019												2020												2021												2022												2023												2024											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																										▨																																												
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																										▨																																												
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																											▨	▨	▨	▨																																								
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																															▨																																									
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																																▨																																								
S35	Demolish Multi-storey Carpark Buildking (remaining part)																																																						▨	▨	▨																														
S36a	Demolish existing flyover																																																						▨	▨	▨																														
S36b	Demolish existing flyover																																																									▨	▨	▨																											
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and																																													▨	▨	▨	▨																																										
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																														▨	▨	▨																																											
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ,																																																																											▨	▨	▨	▨	▨	▨	▨					
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and																																									▨	▨	▨	▨	▨	▨																																												
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																												▨	▨	▨																																												
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ,																																																																											▨	▨	▨	▨	▨	▨	▨					
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																							▨	▨																																																	
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			▨																																									
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	▨	▨																																									
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			▨																																									
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	▨	▨																																									
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			▨																																									
S42	Demolish special clinic extension building																																▨	▨	▨	▨	▨																																																						
S43	Excavation of Tunnel Tubes (under cover of traffic deck)																																				▨	▨									▨	▨	▨																																								
S44	Construct Southern Dwall & Traffic Deck - Piling for King Post																												▨																																																																
S44	Construct Southern Dwall &Traffic Deck - Grouting for King Post																												▨																																																																	
S44	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls																													▨	▨																																																														
S44	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																															▨																																																													
S44	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck																																▨																																																													
S45	Construct Northern Dwall & Traffic Deck - Piling for King Post																																					▨																																																						
S45	Construct Northern Dwall &Traffic Deck - Grouting for King Post																																					▨																																																						
S45	Construct Northern Dwall & Traffic Deck - Excavation for Diaphragm Walls																																						▨	▨																																																		
S45	Construct Northern Dwall &Traffic Deck - Concreting for Diaphragm Walls																																								▨																																																			
S45	Construct Northern Dwall & Traffic Deck - Temporary Traffic Deck																																									▨																																																	
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)																																														▨	▨	▨	▨																																										
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																																		▨	▨	▨	▨																																						
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)																																																						▨	▨	▨	▨																																	
S47a	Underpinning of Existing Bridges (under cover of traffic deck)																														▨	▨	▨	▨	▨	▨	▨																																																						
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																		▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																												
S47b	Underpinning of Existing Bridges (under cover of traffic deck)																																		▨	▨	▨	▨	▨	▨	▨																																																			
S47b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																						▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																							
S47c	Underpinning of Existing Bridges (under cover of traffic deck)																													▨	▨	▨	▨	▨																																																										
S47c	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																											▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																				
S49	Underpinning of Existing Bridges (under cover of traffic deck)																																						▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																																											
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																▨	▨	▨	▨	▨	▨																																						
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																												▨	▨	▨																									
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																											▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨																																			
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																						▨	▨	▨	▨	▨																													
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																								▨	▨	▨																													
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																																▨	▨	▨	▨	▨	▨															
S50d	Road works for re-align Ferry Street at-grade road																																																																							▨	▨	▨												
S51	Demolish the Existing Ferr Street Subway																																				▨																																																						
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														▨	▨																																										
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													▨	▨	▨																																										
S52	Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck																																																▨																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														▨	▨																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													▨	▨	▨																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck																																																▨																																										
S55a	Reinstate the affected roads and footpaths																																																																								▨	▨	▨	▨										
S55a	Road works for Section between Ferry Street and Nathan Road																																																																											▨	▨	▨	▨	▨	▨	▨	▨	▨	
S55b	Reinstate the affected roads and footpaths																																																																								▨	▨	▨	▨										
S55b	Road works for Section between Ferry Street and Nathan Road																																																																											▨	▨	▨	▨	▨	▨	▨	▨	▨	

Construction Programme

Worksite	Activity	2018											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation				▨	▨	▨						
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure							▨	▨	▨	▨	▨	▨

Worksite	Activity	2019											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Worksite	Activity	2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Worksite	Activity	2021											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)					▨	▨	▨	▨	▨	▨	▨	▨
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Worksite	Activity	2022											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)			▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Worksite	Activity	2023											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	▨	▨	▨	▨	▨	▨	▨	▨	▨			
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Worksite	Activity	2024											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	▨	▨	▨	▨								
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	▨	▨	▨	▨								
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												

Appendix C

Detailed Construction Noise Assessment

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)
Mitigation Measures Scenario

Noise Criteria: 70dB(A), 65dB(A) during exam

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S3	Construct Dwall and Traffic Deck - Piling for King Post	Jul-18	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	51
			Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	300	-58	3	-5	44	
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	
			Lorry	CNP142	105	60	-2	103	1	103	300	-58	3	-5	43	
			or													
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	50
			Lorry	CNP142	105	60	-2	103	1	103	300	-58	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	300	-58	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	300	-58	3	-5	38	
	Construct Dwall and Traffic Deck - Diaphragm Walls	Aug 2018 - Nov 2018	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	300	-58	3	0	34	51
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	
			Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	
			Lorry	CNP142	105	70	-2	103	1	103	300	-58	3	-5	44	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	300	-58	3	-5	40	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	300	-58	3	-5	44	47
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	300	-58	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	300	-58	3	-5	37	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Nov 2018 - Jan 2019	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	300	-58	3	-5	44	49
			Generator	CNP103	95	100	0	95	1	95	300	-58	3	-10	30	
			Lorry	CNP142	105	70	-2	103	1	103	300	-58	3	-5	44	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	300	-58	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	300	-58	3	-5	37	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Feb-19	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	300	-58	3	0	34	49
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	
			Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Mar-19	Generator	CNP103	95	70	-2	93	1	93	300	-58	3	-10	29	47
			Lorry	CNP142	105	90	0	105	1	105	300	-58	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	300	-58	3	-5	38	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	
S13a	Removal of Excavated Material through West End Portal	Apr 2019 - Mar 2020	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	300	-58	3	-5	54	54

HY/2014/08

Associated Cumulative Noise Levels

W-N1A

Worksite	Activity	2018												2019												2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post							50.9																													
S3	Construct Dwall and Traffic Deck - Diaphragm Walls								50.6	50.6	50.6	50.6																									
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls											48.8	48.8	48.8																							
S3	Construct Southern Dwall & Traffic Deck - Concreting for Diaphragm Walls														48.9																						
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck															46.8																					
S13a	Removal of Excavated Material through West End Portal																										53.9	53.9	53.9								
	Total SPL (YMTE only), dB(A)	-	-	-	-	-	-	51	51	51	51	53	49	49	49	47	-	-	-	-	-	-	-	-	-	-	54	54	54	-	-	-	-	-	-	-	-
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)	48-55																																			
	Total SPL (YMTW only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	59	57	57	60	60	65	65	64	64	64	64	65	65	65	65	65	65	65	65	65	65	65	65
	Cumulative SPL (YMTE+YMTW), dB(A)	-	-	-	-	-	-	51	51	51	51	53	49	49	59	57	57	60	60	65	65	64	64	64	64	65	65	65	65	65	65	65	65	65	65	65	65	65
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Worksite	Activity	2021												2022												2023											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Total SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)																																				
	Total SPL (YMTW only), dB(A)	65	65	65	65	65	65	66	66	66	65	65	65	65	65	63	63	63	67	67	67	67	67	67	65	65	65	65	65	65	65	65	65	65	-	-	-
	Cumulative SPL (YMTE+YMTW), dB(A)	65	65	65	65	65	65	66	66	66	65	65	65	65	65	63	63	63	67	67	67	67	67	67	65	65	65	65	65	65	65	65	65	65	-	-	-
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-

Worksite	Activity	2024											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Total SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)												
	Total SPL (YMTW only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Cumulative SPL (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

[1] For works that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Works located outside 300m boundary of the NSR
are not assessed

[3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

[4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N8A Tak Cheong Building
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S3	Construct Dwall and Traffic Deck - Piling for King Post	Jul-18	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	52
			Concrete pump	CNP047	109	80	-1	108	1	108	250	-56	3	-10	45	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	250	-56	3	-5	45	
			Generator	CNP103	95	100	0	95	2	98	250	-56	3	-10	35	
			Lorry	CNP142	105	60	-2	103	1	103	250	-56	3	-5	45	
			or													
			Generator	CNP103	95	100	0	95	2	98	250	-56	3	-10	35	52
			Lorry	CNP142	105	60	-2	103	1	103	250	-56	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	250	-56	3	-10	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	250	-56	3	-5	39	
	Construct Dwall and Traffic Deck - Diaphragm Walls	Aug 2018 - Nov 2018	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	250	-56	3	0	35	52
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	250	-56	3	-10	45	
			Generator	CNP103	95	100	0	95	2	98	250	-56	3	-10	35	
			Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	250	-56	3	-5	42	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	250	-56	3	-5	45	49
			Generator	CNP103	95	100	0	95	2	98	250	-56	3	-10	35	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	250	-56	3	-10	42	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	250	-56	3	-5	39	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Nov 2018 - Jan 2019	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	250	-56	3	-5	45	50
			Generator	CNP103	95	100	0	95	1	95	250	-56	3	-10	32	
			Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	250	-56	3	-10	42	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	250	-56	3	-5	39	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Feb-19	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	250	-56	3	0	35	50
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	250	-56	3	-10	45	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Mar-19	Generator	CNP103	95	70	-2	93	1	93	250	-56	3	-10	30	48
			Lorry	CNP142	105	90	0	105	1	105	250	-56	3	-5	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	250	-56	3	-5	39	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	
S4	Construction of Methodone Clinic	Apr 2018 - Jan 2019	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	70	-45	3	0	46	66
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	70	-45	3	-5	64	
			Concrete pump	CNP047	109	70	-2	107	1	107	70	-45	3	-10	56	
			Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	70	-45	3	-5	51	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	70	-45	3	-5.0	57	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	70	-45	3	-5	56	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	70	-45	3	-5	51	
S5	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	19	-34	3	-5	72	74
			Dump Truck with Grab	CNP069	105	50	-3	102	1	102	19	-34	3	-5	66	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	19	-34	3	-5	66	
S6	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	45	-41	3	-5	66	68
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	45	-41	3	-5	63	
			Concrete crusher, excavator mounted	CNP055	103	90	0	103	1	103	45	-41	3	-5	59	
S7	Construction of Temporary Library & Temporary Jade Market - Foundation	May 2019 - Oct 2019	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	85	-47	3	0	44	64.5
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	85	-47	3	-5	62	
			Concrete pump	CNP047	109	70	-2	107	1	107	85	-47	3	-10	54	
			Generator	CNP103	95	100	0	95	2	98	85	-47	3	-10	44	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	85	-47	3	-5	52	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	85	-47	3	-5	55	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	85	-47	3	-5	54	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	
	Construction of Temporary Library & Temporary Jade Market - Superstructure	Nov 2019 Feb 2020	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	85	-47	3	0	47	62.3
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	85	-47	3	-5	60	
			Concrete pump	CNP047	109	40	-4	105	1	105	85	-47	3	-10	51	
			Generator	CNP103	95	100	0	95	2	98	85	-47	3	-10	44	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	85	-47	3	-5	49	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	85	-47	3	-5	54	
S8	Construction of Western Access Shaft - Excavation of Diaphragm Walls	Apr-18	Dump Truck with Grab	CNP069	105	50	-3	102	2	105	80	-46	3	-5	57	62
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Lorry	CNP142	105	70	-2	103	1	103	80	-46	3	-5	55	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	80	-46	3	-5	53	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	3	109	80	-46	3	-10	56	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	80	-46	3	-5	49	
	Construct Western Access Shaft - Concreting of Diaphragm Wall	May-18	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	80	-46	3	0	45	64
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	80	-46	3	-5	63	
			Concrete pump	CNP047	109	70	-2	107	1	107	80	-46	3	-10	54	
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Lorry	CNP142	105	70	-2	103	1	103	80	-46	3	-5	55	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	80	-46	3	-5	53	
	Construct Western Access Shaft - Soil Excavation of Access Shaft	Dec-19	Dump Truck	CNP069	105	50	-3	102	2	105	80	-46	3	-5	57	61
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Lorry	CNP142	105	50	-3	102	1	102	80	-46	3	-5	54	
			Tracked crane	BS D7-114	101	70	-2	99	1	99	80	-46	3	-5	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	3	102	80	-46	3	-5	53	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	5	92	80	-46	3	0	49	
			Ventilation Fan	CNP241	108	90	0	108	2	111	80	-46	3	-15	52	
	Construct Western Access Shaft - Rock Excavation of Access Shaft	Jan 2020 - Mar 2020	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	3	113	80	-46	3	0	69	72
			Rock drill, excavator mounted	SIL EIA	108	50	-3	105	3	110	80	-46	3	0	67	
			Splitter, excavator mounted	BS C12/2	101	50	-3	98	3	103	80	-46	3	0	60	
			Dump Truck	CNP069	105	50	-3	102	2	105	80	-46	3	-5	57	
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Lorry	CNP142	105	50	-3	102	1	102	80	-46	3	-5	54	
			Tracked crane	BS D7-114	101	70	-2	99	1	99	80	-46	3	-5	51	
			Ventilation Fan	CNP241	108	90	0	108	2	111	80	-46	3	-15	52	
	Construct Western Access Shaft - Cast Bottom Slab	Apr-20	Bar Bender and Cutter	CNP021	90	60	-2	88	3	93	80	-46	3	0	49	65
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	80	-46	3	-5	61	
			Concrete pump	CNP047	109	50	-3	106	2	109	80	-46	3	-10	56	
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	80	-46	3	-5	50	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	80	-46	3	-5	56	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	3	105	80	-46	3	-5	57	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	80	-46	3	0	48	
			Ventilation Fan	CNP241	108	90	0	108	3	112	80	-46	3	-15	54	
S13a	Removal of Excavated Material through West End Portal	Feb 2020 - Apr 2020	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	250	-56	3	-5	55	55

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N8A Tak Cheong Building
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
16a	Construct Dwall and Traffic Deck - Piling for King Post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	55	-43	3	-5	62	66
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	55	-43	3	-5	59	
			Generator	CNP103	95	100	0	95	2	98	55	-43	3	-10	48	
			Lorry	CNP142	105	60	-2	103	1	103	55	-43	3	-5	58	
			or													
			Generator	CNP103	95	100	0	95	2	98	55	-43	3	-10	48	65
			Lorry	CNP142	105	60	-2	103	1	103	55	-43	3	-5	58	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	55	-43	3	-10	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	55	-43	3	-5	53	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Dec 2019 - Apr 2020	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	55	-43	3	0	49	65
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	55	-43	3	-5	62	
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
			Generator	CNP103	95	100	0	95	2	98	55	-43	3	-10	48	
			Lorry	CNP142	105	70	-2	103	1	103	55	-43	3	-5	59	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	55	-43	3	-5	55	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	55	-43	3	-5	59	62
			Generator	CNP103	95	100	0	95	2	98	55	-43	3	-10	48	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	55	-43	3	-10	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	55	-43	3	-5	52	
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	55	-43	3	-10	44	62
			Lorry	CNP142	105	90	0	105	1	105	55	-43	3	-5	60	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	55	-43	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
16b	Construct Dwall and Traffic Deck - Piling for King Post	Jul-20	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	22	-35	3	-5	70	74
			Concrete pump	CNP047	109	80	-1	108	1	108	22	-35	3	-10	66	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	22	-35	3	-5	67	
			Generator	CNP103	95	100	0	95	2	98	22	-35	3	-10	56	
			Lorry	CNP142	105	60	-2	103	1	103	22	-35	3	-5	66	
			or													
			Generator	CNP103	95	100	0	95	2	98	22	-35	3	-10	56	73
			Lorry	CNP142	105	60	-2	103	1	103	22	-35	3	-5	66	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	22	-35	3	-5	63	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	22	-35	3	-10	71	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	22	-35	3	-5	61	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Feb 2021 May 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	22	-35	3	0	57	73
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	22	-35	3	-5	70	
			Concrete pump	CNP047	109	80	-1	108	1	108	22	-35	3	-10	66	
			Generator	CNP103	95	100	0	95	2	98	22	-35	3	-10	56	
			Lorry	CNP142	105	70	-2	103	1	103	22	-35	3	-5	67	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	22	-35	3	-5	63	
			or										3			
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	22	-35	3	-5	67	70
			Generator	CNP103	95	100	0	95	2	98	22	-35	3	-10	56	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	22	-35	3	-5	63	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	22	-35	3	-10	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	22	-35	3	-5	60	
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	22	-35	3	-10	52	70
			Lorry	CNP142	105	90	0	105	1	105	22	-35	3	-5	68	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	22	-35	3	-5	61	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	22	-35	3	-5	63	
S18	Demolish Multi-storey Carpark Buildking (partially)	Mar 2021 - Jun 2021	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	135	-51	3	-5	56	65
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	135	-51	3	-5	54	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	2	105	135	-51	3	-5	52	
			Forklift	XRL - HK Section EIA	104	20	-7	97	2	100	135	-51	3	-5	47	
			Concrete Core	CNP042	117	20	-7	110	2	113	135	-51	3	-5	60	
			Saw, concrete	CNP203	115	25	-6	109	2	112	135	-51	3	-5	59	
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	32	-38	3	0	53	72
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	32	-38	3	-5	67	
			Concrete pump	CNP047	109	80	-1	108	1	108	32	-38	3	-10	63	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	32	-38	3	-5	63	
			Generator	CNP103	95	100	0	95	1	95	32	-38	3	-10	50	
			Lorry	CNP142	105	70	-2	103	1	103	32	-38	3	-5	63	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	32	-38	3	-10	59	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	32	-38	3	-5	60	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	32	-38	3	-5	57	
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	32	-38	3	-10	48	66
			Lorry	CNP142	105	90	0	105	1	105	32	-38	3	-5	64	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	32	-38	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	45	-41	3	0	50	69
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-5	64	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-10	60	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	45	-41	3	-5	60	
			Generator	CNP103	95	100	0	95	1	95	45	-41	3	-10	47	
			Lorry	CNP142	105	70	-2	103	1	103	45	-41	3	-5	60	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-5	56	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	45	-41	3	-10	56	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	45	-41	3	-5	57	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	45	-41	3	-5	54	
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	45	-41	3	-10	45	63
			Lorry	CNP142	105	90	0	105	1	105	45	-41	3	-5	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	45	-41	3	-5	54	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-5	56	
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier	Jun 2020 - Dec 2020	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	31	-38	3	-5	70	74
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	31	-38	3	-5	66	
			Generator	CNP103	95	100	0	95	3	100	31	-38	3	-10	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	31	-38	3	-5	59	
			Crane Mobile	BS D7-114	105	60	-2	103	2	106	31	-38	3	-5	66	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	31	-38	3	0	54	
			Concrete pump	CNP047	109	70	-2	107	1	107	31	-38	3	-10	63	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	31	-38	3	-10	68	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck	May 2021 - Jul 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	31	-38	3	-5	64	68
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	31	-38	3	-5	62	
			Generator	CNP103	95	100	0	95	3	100	31	-38	3	-10	55	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	31	-38	3	0	54	
			Concrete pump	CNP047	109	70	-2	107	1	107	31	-38	3	-10	63	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jul 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	31	-38	3	-5	61	65
			Road Roller	EPD-01183	97	60	-2	95	1	95	31	-38	3	-5	55	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	31	-38	3	-5	62	
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier	Oct 2020 - Apr 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	100	-48	3	-5	60	64
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	100	-48	3	-5	56	
			Generator	CNP103	95	100	0	95	3	100	100	-48	3	-10	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	100	-48	3	-5	49	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	100	-48	3	-5	52	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	100	-48	3	0	43	
			Concrete pump	CNP047	109	70	-2	107	1	107	100	-48	3	-10	52	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	100	-48	3	-10	58	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck	May 2021 - Jul 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	100	-48	3	-5	54	58
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	100	-48	3	-5	52	
			Generator	CNP103	95	100	0	95	3	100	100	-48	3	-10	45	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	100	-48	3	0	43	
			Concrete pump	CNP047	109	70	-2	107	1	107	100	-48	3	-10	52	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres	Jul 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	100	-48	3	-5	51	55
			Road Roller	EPD-01183	97	60	-2	95	1	95	100	-48	3	-5	45	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	100	-48	3	-5	52	

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Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S28	Diversion of Ferry Street Junction	Jul 2019 - Sep 2019	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	160	-52	3	-5	49	60
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	160	-52	3	-5	56	
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	160	-52	3	-5	52	
			Generator	CNP103	95	100	0	95	3	100	160	-52	3	-10	41	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	3	105	160	-52	3	-5	51	
			Road Roller	EPD-01183	97	70	-2	95	2	98	160	-52	3	-5	44	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	160	-52	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	160	-52	3	-5	45	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	160	-52	3	0	39	
			Concrete pump	CNP047	109	80	-1	108	1	108	160	-52	3	-10	49	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-19	Generator	CNP103	95	100	0	95	1	95	140	-51	3	-10	37	55
			Lorry	CNP142	105	60	-2	103	1	103	140	-51	3	-5	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	140	-51	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	140	-51	3	-10	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	140	-51	3	-5	45	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	140	-51	3	-5	54	55
			Concrete pump	CNP047	109	80	-1	108	1	108	140	-51	3	-10	50	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Dec 2019 Mar 2020	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	140	-51	3	-5	51	55
			Generator	CNP103	95	100	0	95	1	95	140	-51	3	-10	37	
			Lorry	CNP142	105	70	-2	103	1	103	140	-51	3	-5	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	140	-51	3	-5	47	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	140	-51	3	-10	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	140	-51	3	-5	44	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Apr-20	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	140	-51	3	0	41	56
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	140	-51	3	-5	54	
			Concrete pump	CNP047	109	80	-1	108	1	108	140	-51	3	-10	50	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	140	-51	3	-10	36	53
			Lorry	CNP142	105	90	0	105	1	105	140	-51	3	-5	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	140	-51	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	140	-51	3	-5	47	
S30	Underpinning Works for YMT Police Station - Grouting	Mar 2019 - Jun 2019	Grout mixer	CNP105	90	70	-2	88	2	91	85	-47	3	-5	43	58.0
			Grout pump	CNP106	105	70	-2	103	2	106	85	-47	3	-5	58	
	Underpinning Works for YMT Police Station - Sokcet H Piling	Dec-18	Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	59.8
			Lorry	CNP142	105	60	-2	103	1	103	85	-47	3	-5	54	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	85	-47	3	-10	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	
			Grout mixer	CNP105	90	40	-4	86	1	86	85	-47	3	-5	37	
			Grout pump	CNP106	105	40	-4	101	1	101	85	-47	3	-5	52	
	Underpinning Works for YMT Police Station - micro-piling	Aug 2019 Feb 2020	Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	58.8
			Lorry	CNP142	105	60	-2	103	1	103	85	-47	3	-5	54	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	85	-47	3	-10	55	
			Grout mixer	CNP105	90	40	-4	86	1	86	85	-47	3	-5	37	
			Grout pump	CNP106	105	40	-4	101	1	101	85	-47	3	-5	52	
	Underpinning Works for YMT Police Station - excavation	Jan 2020 Feb 2020	Dump Truck with Grab	CNP069	105	80	-1	104	1	104	85	-47	3	-5	55	56.6
			Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	1	98	85	-47	3	-5	49	
	Underpinning Works for YMT Police Station - pipe piling	Jul 2020 - Mar 2021	Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	58.8
			Lorry	CNP142	105	60	-2	103	1	103	85	-47	3	-5	54	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	85	-47	3	-10	55	
			Grout mixer	CNP105	90	40	-4	86	1	86	85	-47	3	-5	37	
			Grout pump	CNP106	105	40	-4	101	1	101	85	-47	3	-5	52	
	Underpinning Works for YMT Police Station - tam grouting	Apr 2021 Jun 2021	Grout mixer	CNP105	90	70	-2	88	2	91	85	-47	3	-5	43	58.0
			Grout pump	CNP106	105	70	-2	103	2	106	85	-47	3	-5	58	
	Underpinning Works for YMT Police Station - Construct underpinning beam and slab	Jul 2021 - Sep 2021	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	85	-47	3	0	47	61.5
			Concrete Lorry Mixer	CNP044	109	40	-4	105	2	108	85	-47	3	-5	59	
			Concrete pump	CNP047	109	30	-5	104	1	104	85	-47	3	-10	50	
			Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	85	-47	3	-5	49	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	85	-47	3	-5	54	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-21	Generator	CNP103	95	100	0	95	1	95	50	-42	3	-10	46	64
			Lorry	CNP142	105	60	-2	103	1	103	50	-42	3	-5	59	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	50	-42	3	-10	60	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	50	-42	3	-5	53	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Nov-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	50	-42	3	-5	63	64
			Concrete pump	CNP047	109	80	-1	108	1	108	50	-42	3	-10	59	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Sep 2021 - Oct 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	55	-43	3	-5	59	64
			Generator	CNP103	95	100	0	95	1	95	55	-43	3	-10	45	
			Lorry	CNP142	105	70	-2	103	1	103	55	-43	3	-5	59	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	55	-43	3	-10	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	55	-43	3	-5	52	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov 2021 - Dec 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	55	-43	3	0	49	64
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	55	-43	3	-5	62	
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Jan-22	Generator	CNP103	95	70	-2	93	1	93	55	-43	3	-10	44	62
			Lorry	CNP142	105	90	0	105	1	105	55	-43	3	-5	60	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	55	-43	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Mar-21	Generator	CNP103	95	100	0	95	1	95	8	-26	3	-10	62	80
			Lorry	CNP142	105	60	-2	103	1	103	8	-26	3	-5	75	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	8	-26	3	-5	71	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	8	-26	3	-10	76	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	8	-26	3	-5	69	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Apr-21	Concrete Lorry Mixer	CNP044	109	50	-3	106	1	106	8	-26	3	-5	78	80
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	May 2021 - Jul 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	8	-26	3	-5	75	79
			Generator	CNP103	95	100	0	95	1	95	8	-26	3	-10	62	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	8	-26	3	-5	71	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	8	-26	3	-10	71	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	8	-26	3	-5	69	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Aug-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	8	-26	3	0	65	79
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	8	-26	3	-5	79	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	8	-26	3	-10	60	76
			Lorry	CNP142	105	50	-3	102	1	102	8	-26	3	-5	74	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	8	-26	3	-5	69	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	8	-26	3	-5	70	
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jun-21	Generator	CNP103	95	100	0	95	1	95	32	-38	3	-10	50	68
			Lorry	CNP142	105	60	-2	103	1	103	32	-38	3	-5	63	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	32	-38	3	-10	64	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	32	-38	3	-5	57	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jun-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	32	-38	3	-5	67	69
			Concrete pump	CNP047	109	80	-1	108	1	108	32	-38	3	-10	63	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Jul 2021 - Oct 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	32	-38	3	-5	63	68
			Generator	CNP103	95	100	0	95	1	95	32	-38	3	-10	50	
			Lorry	CNP142	105	70	-2	103	1	103	32	-38	3	-5	63	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	32	-38	3	-10	59	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	32	-38	3	-5	57	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	32	-38	3	0	53	68
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	32	-38	3	-5	67	
			Concrete pump	CNP047	109	80	-1	108	1	108	32	-38	3	-10	63	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Dec-21	Generator	CNP103	95	70	-2	93	1	93	32	-38	3	-10	48	66
			Lorry	CNP142	105	90	0	105	1	105	32	-38	3	-5	64	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	32	-38	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
S35	Demolish Multi-storey Carpark Buildking (remaining part)	Jun 2022 - Aug 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	135	-51	3	-5	56	65
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	135	-51	3	-5	54	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	2	105	135	-51	3	-5	52	
			Forklift	XRL - HK Section EIA	104	20	-7	97	2	100	135	-51	3	-5	47	
			Concrete Core	CNP042	117	20	-7	110	2	113	135	-51	3	-5	60	
			Saw, concrete	CNP203	115	25	-6	109	2	112	135	-51	3	-5	59	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N8A Tak Cheong Building
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S36a	Demolish existing flyover	Jun 2022 - Aug 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	32	-38	3	-5	68	70
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	32	-38	3	-5	63	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	32	-38	3	-5	61	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	32	-38	3	-5	59	
			Saw, Wire	CNP205	101	60	-2	99	1	99	32	-38	3	-5	59	
S36b	Demolish existing flyover	Sep 2022 - Nov 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	50	-42	3	-5	64	67
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	50	-42	3	-5	59	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	50	-42	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
			Saw, Wire	CNP205	101	60	-2	99	1	99	50	-42	3	-5	55	
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier	Sep 2021 - Dec 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	23	-35	3	-5	73	77
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	23	-35	3	-5	69	
			Generator	CNP103	95	100	0	95	3	100	23	-35	3	-10	58	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	23	-35	3	-5	62	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	23	-35	3	-5	65	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	23	-35	3	0	56	
			Concrete pump	CNP047	109	70	-2	107	1	107	23	-35	3	-10	65	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	23	-35	3	-10	71	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck	Oct 2021 - Dec 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	23	-35	3	-5	67	71
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	23	-35	3	-5	65	
			Generator	CNP103	95	100	0	95	3	100	23	-35	3	-10	58	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	23	-35	3	0	56	
			Concrete pump	CNP047	109	70	-2	107	1	107	23	-35	3	-10	65	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jan 2024 - Jul 2024	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	23	-35	3	-5	64	68
			Road Roller	EPD-01183	97	60	-2	95	1	95	23	-35	3	-5	58	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	23	-35	3	-5	65	
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier	May 2021 - Oct 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	90	-47	3	-5	61	65
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	90	-47	3	-5	57	
			Generator	CNP103	95	100	0	95	3	100	90	-47	3	-10	46	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	90	-47	3	-5	50	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	90	-47	3	-5	53	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	90	-47	3	0	44	
			Concrete pump	CNP047	109	70	-2	107	1	107	90	-47	3	-10	53	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	90	-47	3	-10	59	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck	Aug 2021 - Oct 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	90	-47	3	-5	55	59
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	90	-47	3	-5	53	
			Generator	CNP103	95	100	0	95	3	100	90	-47	3	-10	46	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	90	-47	3	0	44	
			Concrete pump	CNP047	109	70	-2	107	1	107	90	-47	3	-10	53	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jan 2024 - Jul 2024	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	90	-47	3	-5	52	56
			Road Roller	EPD-01183	97	60	-2	95	1	95	90	-47	3	-5	46	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	90	-47	3	-5	53	
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Mar 2021 - Apr 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	120	-50	3	0	42	60
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	120	-50	3	-5	55	
			Concrete pump	CNP047	109	80	-1	108	1	108	120	-50	3	-10	51	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	120	-50	3	-5	52	
			Generator	CNP103	95	100	0	95	1	95	120	-50	3	-10	38	
			Lorry	CNP142	105	70	-2	103	1	103	120	-50	3	-5	52	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-5	48	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	120	-50	3	-10	48	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	120	-50	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	120	-50	3	-5	45	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	120	-50	3	-10	37	55
			Lorry	CNP142	105	90	0	105	1	105	120	-50	3	-5	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	120	-50	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-5	48	
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2022 - Feb 2022	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	29	-37	3	0	54	72
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	29	-37	3	-5	68	
			Concrete pump	CNP047	109	80	-1	108	1	108	29	-37	3	-10	64	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	29	-37	3	-5	64	
			Generator	CNP103	95	100	0	95	1	95	29	-37	3	-10	51	
			Lorry	CNP142	105	70	-2	103	1	103	29	-37	3	-5	64	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	29	-37	3	-5	60	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	29	-37	3	-10	60	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	29	-37	3	-5	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	29	-37	3	-5	58	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	29	-37	3	-10	49	67
			Lorry	CNP142	105	90	0	105	1	105	29	-37	3	-5	65	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	29	-37	3	-5	58	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	29	-37	3	-5	60	
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2022 - Feb 2022	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	15	-32	3	0	60	78
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	15	-32	3	-5	73	
			Concrete pump	CNP047	109	80	-1	108	1	108	15	-32	3	-10	70	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	15	-32	3	-5	70	
			Generator	CNP103	95	100	0	95	1	95	15	-32	3	-10	56	
			Lorry	CNP142	105	70	-2	103	1	103	15	-32	3	-5	70	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	15	-32	3	-5	66	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	15	-32	3	-10	66	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	15	-32	3	-5	66	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	15	-32	3	-5	63	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	15	-32	3	-10	55	73
			Lorry	CNP142	105	90	0	105	1	105	15	-32	3	-5	71	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	15	-32	3	-5	64	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	15	-32	3	-5	66	
S42	Demolish special clinic extension building	Aug 2020 - Dec 2020	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	70	-2	108	1	108	40	-40	3	-5	66	71
			Dump Truck with Grab	CNP069	105	70	-2	103	3	108	40	-40	3	-5	66	
			Concrete crusher, excavator mounted	CNP055	103	90	0	103	2	106	40	-40	3	-5	64	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	40	-40	3	-5	60	
			Saw, Wire	CNP205	101	70	-2	99	2	102	40	-40	3	-5	60	
			Generator	CNP103	95	100	0	95	2	98	40	-40	3	-10	51	
S43	Excavation of Tunnel Tubes (under cover of traffic deck)	Dec 2020 - Jan 2021, Oct 2021 - Dec 2021	Generator	CNP103	95	100	0	95	10	105	135	-51	3	-20	37	56
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	5	105	135	-51	3	-20	37	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	5	114	135	-51	3	-20	46	
			Ventilation Fan	CNP241	108	90	0	108	10	118	135	-51	3	-15	55	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	12	96	135	-51	3	-20	28	
S44	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Apr-20	Generator	CNP103	95	100	0	95	3	100	55	-43	3	-10	50	66
			Lorry	CNP142	105	60	-2	103	1	103	55	-43	3	-5	58	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	3	114	55	-43	3	-10	64	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	55	-43	3	-5	53	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-20	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	55	-43	3	-5	65	66
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	May 2020 - Jun 2020	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	55	-43	3	-5	59	64
			Generator	CNP103	95	100	0	95	4	101	55	-43	3	-10	51	
			Lorry	CNP142	105	70	-2	103	1	103	55	-43	3	-5	59	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	2	108	55	-43	3	-10	58	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	55	-43	3	-5	52	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Jul-20	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	55	-43	3	0	49	66
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	55	-43	3	-5	65	
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Aug-20	Generator	CNP103	95	70	-2	93	1	93	55	-43	3	-10	44	64
			Lorry	CNP142	105	90	0	105	2	108	55	-43	3	-5	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	55	-43	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	55	-43	3	-5	58	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N8A Tak Cheong Building
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S45	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jan-21	Generator	CNP103	95	100	0	95	3	100	30	-38	3	-10	55	71
			Lorry	CNP142	105	60	-2	103	1	103	30	-38	3	-5	63	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	30	-38	3	-5	60	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	3	114	30	-38	3	-10	70	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	30	-38	3	-5	58	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jan-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	30	-38	3	-5	70	71
			Concrete pump	CNP047	109	80	-1	108	1	108	30	-38	3	-10	63	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Feb 2021 - Mar 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	30	-38	3	-5	64	69
			Generator	CNP103	95	100	0	95	4	101	30	-38	3	-10	56	
			Lorry	CNP142	105	70	-2	103	1	103	30	-38	3	-5	64	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	30	-38	3	-5	60	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	2	108	30	-38	3	-10	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	30	-38	3	-5	57	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Apr-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	30	-38	3	0	54	71
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	30	-38	3	-5	70	
			Concrete pump	CNP047	109	80	-1	108	1	108	30	-38	3	-10	63	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	May-21	Generator	CNP103	95	70	-2	93	1	93	30	-38	3	-10	49	70
			Lorry	CNP142	105	90	0	105	2	108	30	-38	3	-5	68	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	30	-38	3	-5	58	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	30	-38	3	-5	63	
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)	Oct 2021 - Jan 2022	Generator	CNP103	95	100	0	95	4	101	155	-52	3	-20	32	50
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	155	-52	3	-20	32	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	155	-52	3	-20	41	
			Ventilation Fan	CNP241	108	90	0	108	4	114	155	-52	3	-15	50	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	155	-52	3	-20	22	
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)	Feb 2022 - May 2022	Generator	CNP103	95	100	0	95	3	100	60	-44	3	-20	39	58
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	60	-44	3	-20	40	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	60	-44	3	-20	49	
			Ventilation Fan	CNP241	108	90	0	108	3	112	60	-44	3	-15	57	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	60	-44	3	-20	30	
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)	Jun 2022 - Sep 2022	Generator	CNP103	95	100	0	95	3	100	13	-30	3	-20	52	71
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	13	-30	3	-20	54	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	1	107	13	-30	3	-20	60	
			Ventilation Fan	CNP241	108	90	0	108	3	112	13	-30	3	-15	70	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	13	-30	3	-20	44	
S47a	Underpinning of Existing Bridges (under cover of traffic deck)	Jun 2020 - Dec 2020	Generator	CNP103	95	100	0	95	1	95	120	-50	3	-20	28	48
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	120	-50	3	-20	22	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	120	-50	3	-20	40	
			Concrete pump	CNP047	109	80	-1	108	1	108	120	-50	3	-20	41	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-20	33	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	120	-50	3	-20	30	
			Ventilation Fan	CNP241	108	90	0	108	1	108	120	-50	3	-15	46	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	120	-50	3	-20	18	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Feb 2022 - Nov 2022	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	120	-50	3	-20	21	53
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	120	-50	3	-20	40	
			Concrete pump	CNP047	109	80	-1	108	1	108	120	-50	3	-20	41	
			Generator	CNP103	95	100	0	95	2	98	120	-50	3	-20	31	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-20	33	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	120	-50	3	-20	34	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	120	-50	3	-20	31	
			Ventilation Fan	CNP241	108	90	0	108	4	114	120	-50	3	-15	52	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	120	-50	3	-20	24	
S47b	Underpinning of Existing Bridges (under cover of traffic deck)	Oct 2020 - Apr 2021	Generator	CNP103	95	100	0	95	1	95	45	-41	3	-20	37	57
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	45	-41	3	-20	30	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-20	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-20	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-20	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	45	-41	3	-20	39	
			Ventilation Fan	CNP241	108	90	0	108	1	108	45	-41	3	-15	54	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	45	-41	3	-20	27	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jun 2022 - Mar 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	45	-41	3	-20	30	61
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-20	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-20	50	
			Generator	CNP103	95	100	0	95	2	98	45	-41	3	-20	40	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-20	41	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	45	-41	3	-20	42	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	45	-41	3	-20	39	
			Ventilation Fan	CNP241	108	90	0	108	4	114	45	-41	3	-15	60	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	45	-41	3	-20	33	
S47c	Underpinning of Existing Bridges (under cover of traffic deck)	May 2020 - Sep 2020	Generator	CNP103	95	100	0	95	1	95	14	-31	3	-20	47	67
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	14	-31	3	-20	41	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	14	-31	3	-20	59	
			Concrete pump	CNP047	109	80	-1	108	1	108	14	-31	3	-20	60	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	14	-31	3	-20	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	14	-31	3	-20	49	
			Ventilation Fan	CNP241	108	90	0	108	1	108	14	-31	3	-15	65	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	14	-31	3	-20	37	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Oct 2022 - Jul 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	14	-31	3	-20	40	71
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	14	-31	3	-20	59	
			Concrete pump	CNP047	109	80	-1	108	1	108	14	-31	3	-20	60	
			Generator	CNP103	95	100	0	95	2	98	14	-31	3	-20	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	14	-31	3	-20	52	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	14	-31	3	-20	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	14	-31	3	-20	50	
			Ventilation Fan	CNP241	108	90	0	108	4	114	14	-31	3	-15	71	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	14	-31	3	-20	43	
S49	Underpinning of Existing Bridges (under cover of traffic deck)	Feb 2021 - Nov 2021	Generator	CNP103	95	100	0	95	1	95	125	-50	3	-20	28	48
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	125	-50	3	-20	22	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	125	-50	3	-20	40	
			Concrete pump	CNP047	109	80	-1	108	1	108	125	-50	3	-20	41	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	125	-50	3	-20	33	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	125	-50	3	-20	30	
			Ventilation Fan	CNP241	108	90	0	108	1	108	125	-50	3	-15	46	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	125	-50	3	-20	18	
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Dec 2021 - May 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	225	-55	3	-5	53	58
			Concrete pump	CNP047	109	80	-1	108	1	108	225	-55	3	-10	46	
			Generator	CNP103	95	100	0	95	3	100	225	-55	3	-10	38	
			Lorry	CNP142	105	70	-2	103	2	106	225	-55	3	-5	49	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	225	-55	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	225	-55	3	-10	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	225	-55	3	-5	43	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	225	-55	3	-5	51	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	225	-55	3	-5	46	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting	Nov 2022 - Jan 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	225	-55	3	-5	42	48
			Generator	CNP103	95	100	0	95	1	95	225	-55	3	-10	33	
			Lorry	CNP142	105	70	-2	103	1	103	225	-55	3	-5	46	
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Jul 2021 - Jul 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	205	-54	3	-5	54	59
			Concrete pump	CNP047	109	80	-1	108	1	108	205	-54	3	-10	47	
			Generator	CNP103	95	100	0	95	3	100	205	-54	3	-10	39	
			Lorry	CNP142	105	70	-2	103	2	106	205	-54	3	-5	50	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	205	-54	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	205	-54	3	-10	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	205	-54	3	-5	44	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	205	-54	3	-5	52	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	205	-54	3	-5	47	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting	Jun 2022 - Oct 2022	Crane Mobile	BS D7-114	101	70	-2	99	1	99	205	-54	3	-5	43	49
			Generator	CNP103	95	100	0	95	1	95	205	-54	3	-10	34	
			Lorry	CNP142	105	70	-2	103	1	103	205	-54	3	-5	47	
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Aug 2022 - Oct 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	170	-53	3	-5	52	59
			Concrete pump	CNP047	109	80	-1	108	1	108	170	-53	3	-10	48	
			Generator	CNP103	95	100	0	95	3	100	170	-53	3	-10	40	
			Lorry	CNP142	105	70	-2	103	1	103	170	-53	3	-5	49	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	170	-53	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	170	-53	3	-10	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	170	-53	3	-5	46	
			Compactor, vibratory	CNP050	105	70	-2	103	2	106	170	-53	3	-5	52	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	170	-53	3	-5	49	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting	Apr 2023 - Sep 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	170	-53	3	-5	45	50
			Generator	CNP103	95	100	0	95	1	95	170	-53	3	-10	35	
			Lorry	CNP142	105	70	-2	103	1	103	170	-53	3	-5	49	

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Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S50d	Road works for re-align Ferry Street at-grade road	Oct 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	185	-53	3	-5	48	57
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	185	-53	3	-5	51	
			Concrete pump	CNP047	109	80	-1	108	1	108	185	-53	3	-10	48	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	185	-53	3	-5	48	
			Generator	CNP103	103	100	0	103	1	103	185	-53	3	-10	43	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	185	-53	3	-10	40	
			Road Roller	EPD-01183	97	80	-1	96	1	96	185	-53	3	-5	41	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	1	110	185	-53	3	-10	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	185	-53	3	-5	42	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	185	-53	3	-5	44	
S51	Demolish the Existing Ferr Street Subway	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	50	-3	107	1	107	225	-55	3	-5	50	54
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	225	-55	3	-5	49	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	1	102	225	-55	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	225	-55	3	-5	42	
			Saw, Wire	CNP205	101	70	-2	99	1	99	225	-55	3	-5	42	
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls	Oct 2021 - Nov 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	85	-47	3	-5	55	60
			Generator	CNP103	95	100	0	95	1	95	85	-47	3	-10	41	
			Lorry	CNP142	105	70	-2	103	1	103	85	-47	3	-5	55	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	85	-47	3	-10	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	85	-47	3	-5	48	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls	Sep 2021 - Nov 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	85	-47	3	0	45	60
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	85	-47	3	-5	58	
			Concrete pump	CNP047	109	80	-1	108	1	108	85	-47	3	-10	54	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck	Dec 2021	Generator	CNP103	95	70	-2	93	1	93	85	-47	3	-10	40	58
			Lorry	CNP142	105	90	0	105	1	105	85	-47	3	-5	56	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls	Oct 2021 - Nov 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	40	-40	3	-5	61	66
			Generator	CNP103	95	100	0	95	1	95	40	-40	3	-10	48	
			Lorry	CNP142	105	70	-2	103	1	103	40	-40	3	-5	61	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	40	-40	3	-5	57	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	40	-40	3	-10	58	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	40	-40	3	-5	55	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls	Sep 2021 - Nov 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	40	-40	3	0	51	66
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	40	-40	3	-5	65	
			Concrete pump	CNP047	109	80	-1	108	1	108	40	-40	3	-10	61	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck	Dec 2021	Generator	CNP103	95	70	-2	93	1	93	40	-40	3	-10	46	64
			Lorry	CNP142	105	90	0	105	1	105	40	-40	3	-5	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	40	-40	3	-5	55	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	40	-40	3	-5	57	
S55a	Reinstate the affected roads and footpaths	Nov 2023 - Feb 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	50	-42	3	-5	59	66
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	50	-42	3	-5	63	
			Generator	CNP103	95	100	0	95	1	95	50	-42	3	-10	46	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	2	103	50	-42	3	-10	54	
			Road Roller	EPD-01183	97	70	-2	95	1	95	50	-42	3	-5	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	50	-42	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
	Road works for Section between Ferry Street and Nathan Road	Mar 2024 - Nov 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	50	-42	3	-5	59	68
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	50	-42	3	-5	66	
			Concrete pump	CNP047	109	80	-1	108	1	108	50	-42	3	-10	59	
			Generator	CNP103	95	100	0	95	2	98	50	-42	3	-10	49	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	2	103	50	-42	3	-10	54	
			Road Roller	EPD-01183	97	80	-1	96	1	96	50	-42	3	-5	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	50	-42	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
S55b	Reinstate the affected roads and footpaths	Nov 2023 - Feb 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	35	-39	3	-5	62	69
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	35	-39	3	-5	66	
			Generator	CNP103	95	100	0	95	1	95	35	-39	3	-10	49	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	35	-39	3	-10	54	
			Road Roller	EPD-01183	97	70	-2	95	1	95	35	-39	3	-5	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	35	-39	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	35	-39	3	-5	59	
	Road works for Section between Ferry Street and Nathan Road	Mar 2024 - Nov 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	35	-39	3	-5	62	70
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	35	-39	3	-5	66	
			Concrete pump	CNP047	109	80	-1	108	1	108	35	-39	3	-10	62	
			Generator	CNP103	95	100	0	95	1	95	35	-39	3	-10	49	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	35	-39	3	-10	55	
			Road Roller	EPD-01183	97	80	-1	96	1	96	35	-39	3	-5	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	35	-39	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	35	-39	3	-5	59	
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	May 2021 - Sep 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	75	-46	3	-20	25	59
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	75	-46	3	-20	47	
			Concrete pump	CNP047	109	80	-1	108	1	108	75	-46	3	-20	46	
			Generator	CNP103	95	100	0	95	3	100	75	-46	3	-20	37	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-20	37	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	75	-46	3	-20	38	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	75	-46	3	-20	35	
			Ventilation Fan	CNP241	108	90	0	108	6	115	75	-46	3	-15	58	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	75	-46	3	-20	30	
	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Apr 2024	Compactor, vibratory	CNP050	105	70	-2	103	1	103	75	-46	3	-20	41	44
			Generator	CNP103	95	100	0	95	2	98	75	-46	3	-20	36	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	75	-46	3	-20	38	
			Road Roller	EPD-01183	97	80	-1	96	1	96	75	-46	3	-20	34	
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Mar 2022 - Dec 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	15	-32	3	-20	39	72
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	15	-32	3	-20	61	
			Concrete pump	CNP047	109	70	-2	107	1	107	15	-32	3	-20	59	
			Generator	CNP103	95	100	0	95	3	100	15	-32	3	-20	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	15	-32	3	-20	51	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	15	-32	3	-20	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	15	-32	3	-20	49	
			Ventilation Fan	CNP241	108	80	-1	107	6	115	15	-32	3	-15	71	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	15	-32	3	-20	44	
	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Apr 2024	Compactor, vibratory	CNP050	105	70	-2	103	1	103	15	-32	3	-20	55	58
			Generator	CNP103	95	100	0	95	2	98	15	-32	3	-20	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	15	-32	3	-20	52	
			Road Roller	EPD-01183	97	80	-1	96	1	96	15	-32	3	-20	48	
S58	Construction of Temporary Maternal and Child Health Centre -	Apr 2018 - Jun 2018	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	1	99	260	-56	3	-5	41	43
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	260	-56	3	-5	39	
	Construction of Temporary Maternal and Child Health Centre - Superstructure	Jul 2018 - Dec 2018	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	260	-56	3	0	37	53
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	260	-56	3	-5	51	
			Concrete pump	CNP047	109	70	-2	107	1	107	260	-56	3	-10	44	
			Generator	CNP103	95	100	0	95	2	98	260	-56	3	-10	35	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	260	-56	3	-5	40	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	260	-56	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	260	-56	3	-5	39	

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Associated Cumulative Noise Levels

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		2018												2019												2020												2021												2022												2023												2024											
Worksite	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post							52.5																																																																														
S3	Construct Dwall and Traffic Deck - Diaphragm Walls								52.2	52.2	52.2	52.2																																																																								
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls											50.4	50.4	50.4																																																																								
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls														50.5																																																																					
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck															48.4																																																																			
S4	Construction of Methodone Clinic				66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0																																																																							
S5	Decant and demolish existing Jade Market																																				74.0																																														
S6	Decant and demolish existing Jade Market																																				68.5																																														
S7	Construction of Temporary Library & Temporary Jade Market - Foundation																	64.5	64.5	64.5	64.5	64.5	64.5																																																																
S7	Construction of Temporary Library & Temporary Jade Market - Superstructure																							62.3	62.3	62.3	62.3																																																														
S8	Construction of Western Access Shaft - Excavation of Diaphragm Walls				64.4																																																																																			
S8	Construct Western Access Shaft - Concreting of Diaphragm Wall					61.4																																																																																	
S8	Construct Western Access Shaft - Soil Excavation of Access Shaft																								61.4																																																														
S8	Construct Western Access Shaft - Rock Excavation of Access Shaft																									64.8	64.8	64.8																																																													
S8	Construct Western Access Shaft - Cast Bottom Slab																												64.8																																																											
S9	Construct Community Liaison Centre																																																																																							
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post																							65.6																																																															
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																								65.3	65.3	65.3	65.3	65.3																																																															
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																													61.6																																																															
S16b	Construct Middle Dwall and Traffic Deck - Piling for King Post																															73.6																																																												
S16b	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																																						73.3	73.3	73.3	73.3																																																						
S16b	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																																															69.5																																															
S17	Decant Library and Government Offices in MSCB																																																																																							
S18	Demolish Multi-storey Carpark Buildking (partially)																																							64.6	64.6	64.6	64.6																																																				
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																									71.6																																																			
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																															66.3																																																
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																									68.6																																																			
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																															63.3																																																
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier																														74.4	74.4	74.4	74.4	74.4	74.4	74.4																																																									
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck																																									68.1	68.1	68.1																																																				
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																						65.0	65.0	65.0	65.0	65.0	65.0												
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier																																		63.9	63.9	63.9	63.9	63.9	63.9	63.9																																																						
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck																																									57.9	57.9	57.9																																																				
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres																																																																						54.9	54.9	54.9	54.9	54.9	54.9												
S28	Diversion of Ferry Street Junction																			59.6	59.6	59.6																																																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																							55.0																																																																	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																							55.4																																																																			
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																								55.1	55.1	55.1	55.1																																																															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																												55.6																																																															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																													53.5																																																														
S30	Underpinning Works for YMT Police Station - Grouting															58.0	58.0	58.0	58.0																																																																								
S30	Underpinning Works for YMT Police Station - Sokcet H Piling												59.8																																																																													
S30	Underpinning Works for YMT Police Station - micro-piling																				58.8	58.8	58.8	58.8	58.8	58.8	58.8																																																														
S30	Underpinning Works for YMT Police Station - excavation																									56.6	56.6																																																																	
S30	Underpinning Works for YMT Police Station - pipe piling																															58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8																																																					
S30	Underpinning Works for YMT Police Station - tam grouting																																								58.0	58.0	58.0																																																					
S30	Underpinning Works for YMT Police Station - Construct underpinning beam and slab																																											61.5	61.5	61.5																																																	
S31	Decant YMT Police Station																																																																																							
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																															64.0																																																
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																															64.3																																																
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																													63.5	63.5																																																	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																															63.6	63.6																																																
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																																	61.6																																														
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																							79.9																																																						
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																								79.9																																																						
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																									78.5	78.5	78.5																																																					
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																												78.9																																																				
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																															76.5																																																
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																										67.8																																																			
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																										69.5																																																				
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																											68.2	68.2	68.2	68.2																																																				
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																															68.3																																																
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																																66.3																																															
S35	Demolish Multi-storey Carpark Buildking (remaining part)																																																						64.6	64.6	64.6																																			
S36a	Demolish existing flyover																																																						70.4	70.4	70.4																																			
S36b	Demolish existing flyover																																																									66.5	66.5	66.5																																	
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier																																													76.6	76.6	76.6	76.6																																																
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																														70.7	70.7	70.7																																																	
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																												67.6	67.6	67.6	67.6	67.6	67.6	67.6					
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier																																									64.8	64.8	64.8	64.8	64.8	64.8																																																			
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																												58.8	58.8	58.8																																																			
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																												55.8	55.8	55.8	55.8	55.8	55.8	55.8					
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																							60.1	60.1																																																					
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			54.8																																														

HY/2014/08
Associated Cumulative Noise Levels

W-N8A

		2018												2019												2020												2021												2022												2023												2024											
Worksite	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	72.4	72.4																																		
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			67.1																																	
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	78.2	78.2																																		
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			72.9																																	
S42	Demolish special clinic extension building																																71.2	71.2	71.2	71.2	71.2																																																			
S43	Excavation of Tunnel Tubes (under cover of traffic deck)																																				55.6	55.6									55.6	55.6	55.6																																					
S44	Construct Southern Dwall & Traffic Deck - Piling for King Post																												66.0																																																										
S44	Construct Southern Dwall &Traffic Deck - Grouting for King Post																												65.8																																																									
S44	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls																													64.2	64.2																																																										
S44	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																															65.9																																																							
S44	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck																																64.3																																																						
S45	Construct Northern Dwall & Traffic Deck - Piling for King Post																																					71.2																																																
S45	Construct Northern Dwall &Traffic Deck - Grouting for King Post																																					71.1																																																
S45	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls																																						69.5	69.5																																													
S45	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																																								71.2																																														
S45	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck																																									69.5																																													
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)																																														50.7	50.7	50.7	50.7																																			
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																																		57.7	57.7	57.7	57.7																															
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)																																																						70.6	70.6	70.6	70.6																											
S47a	Underpinning of Existing Bridges (under cover of traffic deck)																														48.3	48.3	48.3	48.3	48.3	48.3	48.3																																																				
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																		52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8																										
S47b	Underpinning of Existing Bridges (under cover of traffic deck)																																		56.8	56.8	56.8	56.8	56.8	56.8	56.8																																																
S47b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																						61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3																									
S47c	Underpinning of Existing Bridges (under cover of traffic deck)																													67.0	67.0	67.0	67.0	67.0																																																						
S47c	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																										71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4																					
S49	Underpinning of Existing Bridges (under cover of traffic deck)																																						48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0																																											
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																58.4	58.4	58.4	58.4	58.4	58.4																																					
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																												48.0	48.0	48.0																											
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																											59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2																																			
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																						48.8	48.8	48.8	48.8	48.8																															
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																								59.4	59.4	59.4																														
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																																		50.4	50.4	50.4	50.4	50.4	50.4																		
S50d	Road works for re-align Ferry Street at-grade road																																																																								57.0	57.0	57.0												
S51	Demolish the Existing Ferr Street Subway																																				54.0																																																					
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														59.7	59.7																																										
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													59.9	59.9	59.9																																										
S52	Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck																																																57.8																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														66.3	66.3																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													66.4	66.4	66.4																																										
S53	Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck																																																64.3																																										
S55a	Reinstate the affected roads and footpaths																																																																									65.7	65.7	65.7	65.7										
S55a	Road works for Section between Ferry Street and Nathan Road																																																																													68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	
S55b	Reinstate the affected roads and footpaths																																																																									68.6	68.6	68.6	68.6										
S55b	Road works for Section between Ferry Street and Nathan Road																																																																												69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																									62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0															
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)																																																																											58.1	58.1	58.1	58.1								
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																			72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)																																																																											57.9	57.9	57.9	57.9								
S58	Construction of Temporary Maternal and Child Health Centre - Foundation				43.0	43.0	43.0																																																																																
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure							53.0	53.0	53.0	53.0	53.0	53.0																																																																										
	Total SPL (YMTE only), dB(A)	-	-	-	68	67	66	66	66	66	66	66	67	66	50	58	58	65	65	66	66	66	64	68	68	69	69	68	72	70	75	78	77	77	76	76	79	75	75	81	81	81	80	80	80	78	79	82	79	79	79	77	73	73	77	77	77	76	76	76	75	75	75	75	75	75	75	75	73	73	73	75	75	73	73	74	74	73	73	73	72	72	72	72	-
	Corrected SPL (YMTE only), dB(A)[5]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81	-	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	1	1	4	-	-	6	6	6	5	5	5	3	4	5	4	4	4	2	3	-	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)	50-81																																																																																					
	Total SPL (YMTW only), dB(A)[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cumulative SPL (YMTE+YMTW), dB(A)	-	-	-	68	67	66	66	66	66	66	66	67	66	50	58	58	65	65	66	66	66	64	68	68	69	69	68	72	70	75	78	77	77	76	76	79	75	75	81	81	81	80	80	80	78	79	80	79	79	79	77	73	73	77	77	77	76	76	76	75	75	75	75	75	75	75	75	73	73	73	75	75	73	73	74	74	73	73	73	72	72	72	72	-
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	1	1	4	-	-	6	6	6	5	5	5	3	4	5	4	4	4	2	3	-	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

[1] For works that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Works located outside 300m boundary of the NSR are not assessed

[3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

[4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

[5] The following construction activities are scheduled to be conducted in the same month but will not be conducted on the same days, thus should not be added up. The activities with the lower SPL (bold) are omitted in the "corrected SPL"
- Worksite S33 & S37a
- Worksite S16a & S33

[6] W-N8A is out of 300m from site boundary of YMTW and such no noise impact is expected from construction of YMTW.

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S3	Construct Dwall and Traffic Deck - Piling for King Post	Jul-18	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	110	-49	3	-5	56	60
			Concrete pump	CNP047	109	80	-1	108	1	108	110	-49	3	-10	52	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	110	-49	3	-5	53	
			Generator	CNP103	95	100	0	95	2	98	110	-49	3	-10	42	
			Lorry	CNP142	105	60	-2	103	1	103	110	-49	3	-5	52	
			or													
			Generator	CNP103	95	100	0	95	2	98	110	-49	3	-10	42	59
			Lorry	CNP142	105	60	-2	103	1	103	110	-49	3	-5	52	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	110	-49	3	-5	49	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	110	-49	3	-10	57	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	110	-49	3	-5	47	
	Construct Dwall and Traffic Deck - Diaphragm Walls	Aug 2018 - Nov 2018	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	110	-49	3	0	43	59
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	110	-49	3	-5	56	
			Concrete pump	CNP047	109	80	-1	108	1	108	110	-49	3	-10	52	
			Generator	CNP103	95	100	0	95	2	98	110	-49	3	-10	42	
			Lorry	CNP142	105	70	-2	103	1	103	110	-49	3	-5	53	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	110	-49	3	-5	49	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	110	-49	3	-5	53	56
			Generator	CNP103	95	100	0	95	2	98	110	-49	3	-10	42	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	110	-49	3	-5	49	
			Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	110	-49	3	-10	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	110	-49	3	-5	46	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Nov 2018 - Jan 2019	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	110	-49	3	-5	53	57
			Generator	CNP103	95	100	0	95	1	95	110	-49	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	110	-49	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	110	-49	3	-5	49	
			Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	110	-49	3	-10	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	110	-49	3	-5	46	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Feb-19	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	110	-49	3	0	43	58
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	110	-49	3	-5	56	
			Concrete pump	CNP047	109	80	-1	108	1	108	110	-49	3	-10	52	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Mar-19	Generator	CNP103	95	70	-2	93	1	93	110	-49	3	-10	38	56
			Lorry	CNP142	105	90	0	105	1	105	110	-49	3	-5	54	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	110	-49	3	-5	47	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	110	-49	3	-5	49	
S4	Construction of Methodone Clinic	Apr 2018 - Jan 2019	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	120	-50	3	0	41	61.3
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	120	-50	3	-5	59	
			Concrete pump	CNP047	109	70	-2	107	1	107	120	-50	3	-10	51	
			Generator	CNP103	95	100	0	95	1	95	120	-50	3	-10	38	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	120	-50	3	-5	46	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	120	-50	3	-5	52	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	120	-50	3	-5	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	120	-50	3	-5	46	
S5	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	135	-51	3	-5	55	57
			Dump Truck with Grab	CNP069	105	50	-3	102	1	102	135	-51	3	-5	49	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	135	-51	3	-5	49	
S6	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	170	-53	3	-5	54	57
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	170	-53	3	-5	52	
			Concrete crusher, excavator mounted	CNP055	103	90	0	103	1	103	170	-53	3	-5	48	
S7	Construction of Temporary Library & Temporary Jade Market - Foundation	May 2019 - Oct 2019	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	180	-53	3	0	38	58.0
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	180	-53	3	-5	56	
			Concrete pump	CNP047	109	70	-2	107	1	107	180	-53	3	-10	47	
			Generator	CNP103	95	100	0	95	2	98	180	-53	3	-10	38	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	180	-53	3	-5	46	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	180	-53	3	-5	49	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	180	-53	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	180	-53	3	-5	42	
	Construction of Temporary Library & Temporary Jade Market - Superstructure	Nov 2019 - Feb 2020	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	180	-53	3	0	41	55.7
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	180	-53	3	-5	54	
			Concrete pump	CNP047	109	40	-4	105	1	105	180	-53	3	-10	45	
			Generator	CNP103	95	100	0	95	2	98	180	-53	3	-10	38	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	180	-53	3	-5	43	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	180	-53	3	-5	48	
S8	Construction of Western Access Shaft - Excavation of Diaphragm Walls	Apr-18	Dump Truck with Grab	CNP069	105	50	-3	102	2	105	205	-54	3	-5	49	54
			Generator	CNP103	95	100	0	95	3	100	205	-54	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	205	-54	3	-5	47	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	205	-54	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	3	109	205	-54	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	205	-54	3	-5	41	
	Construct Western Access Shaft - Concreting of Diaphragm Wall	May-18	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	205	-54	3	0	37	56
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	205	-54	3	-5	55	
			Concrete pump	CNP047	109	70	-2	107	1	107	205	-54	3	-10	46	
			Generator	CNP103	95	100	0	95	3	100	205	-54	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	205	-54	3	-5	47	
			Crane Mobile	BS D7-114	101	50	-3	98	2	101	205	-54	3	-5	45	
	Construct Western Access Shaft - Soil Excavation of Access Shaft	Dec-19	Dump Truck	CNP069	105	50	-3	102	2	105	205	-54	3	-5	49	53
			Generator	CNP103	95	100	0	95	2	98	205	-54	3	-10	37	
			Lorry	CNP142	105	50	-3	102	1	102	205	-54	3	-5	46	
			Tracked crane	BS D7-114	101	70	-2	99	1	99	205	-54	3	-5	43	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	3	102	205	-54	3	-5	45	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	5	92	205	-54	3	0	41	
			Ventilation Fan	CNP241	108	90	0	108	2	111	205	-54	3	-15	44	
	Construct Western Access Shaft - Rock Excavation of Access Shaft	Jan 2020 - Mar 2020	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	3	113	205	-54	3	0	61	64
			Rock drill, excavator mounted	SIL EIA	108	50	-3	105	3	110	205	-54	3	0	59	
			Splitter, excavator mounted	BS C12/2	101	50	-3	98	3	103	205	-54	3	0	52	
			Dump Truck	CNP069	105	50	-3	102	2	105	205	-54	3	-5	49	
			Generator	CNP103	95	100	0	95	2	98	205	-54	3	-10	37	
			Lorry	CNP142	105	50	-3	102	1	102	205	-54	3	-5	46	
			Tracked crane	BS D7-114	101	70	-2	99	1	99	205	-54	3	-5	43	
			Ventilation Fan	CNP241	108	90	0	108	2	111	205	-54	3	-15	44	
	Construct Western Access Shaft - Cast Bottom Slab	Apr-20	Bar Bender and Cutter	CNP021	90	60	-2	88	3	93	205	-54	3	0	41	56.6
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	205	-54	3	-5	53	
			Concrete pump	CNP047	109	50	-3	106	2	109	205	-54	3	-10	48	
			Generator	CNP103	95	100	0	95	2	98	205	-54	3	-10	37	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	205	-54	3	-5	42	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	205	-54	3	-5	48	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	3	105	205	-54	3	-5	49	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	205	-54	3	0	40	
			Ventilation Fan	CNP241	108	90	0	108	3	112	205	-54	3	-15	46	
S13a	Removal of Excavated Material through West End Portal	Feb 2020 - Apr 2020	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	110	-49	3	-5	63	62.6

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
16a	Construct Dwall and Traffic Deck - Piling for King Post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	80	-46	3	-5	59	62
			Concrete pump	CNP047	109	80	-1	108	1	108	80	-46	3	-10	55	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	80	-46	3	-5	55	
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Lorry	CNP142	105	60	-2	103	1	103	80	-46	3	-5	55	
			or													
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	62
			Lorry	CNP142	105	60	-2	103	1	103	80	-46	3	-5	55	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	80	-46	3	-5	51	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	80	-46	3	-10	59	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	80	-46	3	-5	49	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Dec 2019 - Apr 2020	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	80	-46	3	0	45	62.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	80	-46	3	-5	59	
			Concrete pump	CNP047	109	80	-1	108	1	108	80	-46	3	-10	55	
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Lorry	CNP142	105	70	-2	103	1	103	80	-46	3	-5	55	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	80	-46	3	-5	52	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	80	-46	3	-5	55	58.6
			Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	80	-46	3	-5	51	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	80	-46	3	-10	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	80	-46	3	-5	49	
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	80	-46	3	-10	40	58.3
			Lorry	CNP142	105	90	0	105	1	105	80	-46	3	-5	56	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	80	-46	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	80	-46	3	-5	51	
16b	Construct Dwall and Traffic Deck - Piling for King Post	Jul-20	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	160	-52	3	-5	53	56
			Concrete pump	CNP047	109	80	-1	108	1	108	160	-52	3	-10	49	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	160	-52	3	-5	49	
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	
			Lorry	CNP142	105	60	-2	103	1	103	160	-52	3	-5	49	
			or													
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	56
			Lorry	CNP142	105	60	-2	103	1	103	160	-52	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	160	-52	3	-5	45	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	160	-52	3	-10	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Feb 2021 - May 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	160	-52	3	0	39	56.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	160	-52	3	-5	53	
			Concrete pump	CNP047	109	80	-1	108	1	108	160	-52	3	-10	49	
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	160	-52	3	-5	49	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	160	-52	3	-5	46	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	160	-52	3	-5	49	52.6
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	160	-52	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	160	-52	3	-10	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	160	-52	3	-5	43	
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	160	-52	3	-10	34	52.3
			Lorry	CNP142	105	90	0	105	1	105	160	-52	3	-5	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	160	-52	3	-5	45	
S18	Demolish Multi-storey Carpark Buildking (partially)	Mar 2021 - Jun 2021	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	245	-56	3	-5	51	59
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	245	-56	3	-5	49	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	2	105	245	-56	3	-5	47	
			Forklift	XRL - HK Section EIA	104	20	-7	97	2	100	245	-56	3	-5	42	
			Concrete Core	CNP042	117	20	-7	110	2	113	245	-56	3	-5	55	
			Saw, concrete	CNP203	115	25	-6	109	2	112	245	-56	3	-5	54	
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	120	-50	3	0	42	60.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	120	-50	3	-5	55	
			Concrete pump	CNP047	109	80	-1	108	1	108	120	-50	3	-10	51	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	120	-50	3	-5	52	
			Generator	CNP103	95	100	0	95	1	95	120	-50	3	-10	38	
			Lorry	CNP142	105	70	-2	103	1	103	120	-50	3	-5	52	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-5	48	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	120	-50	3	-10	48	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	120	-50	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	120	-50	3	-5	45	
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	120	-50	3	-10	37	54.8
			Lorry	CNP142	105	90	0	105	1	105	120	-50	3	-5	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	120	-50	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	120	-50	3	-5	48	
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	165	-52	3	0	39	57.3
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	165	-52	3	-5	52	
			Concrete pump	CNP047	109	80	-1	108	1	108	165	-52	3	-10	49	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	165	-52	3	-5	49	
			Generator	CNP103	95	100	0	95	1	95	165	-52	3	-10	36	
			Lorry	CNP142	105	70	-2	103	1	103	165	-52	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	165	-52	3	-10	45	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	165	-52	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	165	-52	3	-5	42	
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	165	-52	3	-10	34	52.0
			Lorry	CNP142	105	90	0	105	1	105	165	-52	3	-5	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	165	-52	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier	Jun 2020 - Dec 2020	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	80	-46	3	-5	62	66.2
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	80	-46	3	-5	58	
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	80	-46	3	-5	51	
			Crane Mobile	BS D7-114	105	60	-2	103	2	106	80	-46	3	-5	58	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	80	-46	3	0	45	
			Concrete pump	CNP047	109	70	-2	107	1	107	80	-46	3	-10	54	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	80	-46	3	-10	60	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck	May 2021 - Jul 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	80	-46	3	-5	56	59.8
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	80	-46	3	-5	54	
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	80	-46	3	0	45	
			Concrete pump	CNP047	109	70	-2	107	1	107	80	-46	3	-10	54	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jul 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	80	-46	3	-5	53	56.8
			Road Roller	EPD-01183	97	60	-2	95	1	95	80	-46	3	-5	47	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	80	-46	3	-5	54	
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier	Oct 2020 - Apr 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	210	-54	3	-5	53	57.4
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	210	-54	3	-5	49	
			Generator	CNP103	95	100	0	95	3	100	210	-54	3	-10	38	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	210	-54	3	-5	43	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	210	-54	3	-5	45	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	210	-54	3	0	37	
			Concrete pump	CNP047	109	70	-2	107	1	107	210	-54	3	-10	46	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	210	-54	3	-10	52	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck	May 2021 - Jul 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	210	-54	3	-5	47	51.5
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	210	-54	3	-5	45	
			Generator	CNP103	95	100	0	95	3	100	210	-54	3	-10	38	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	210	-54	3	0	37	
			Concrete pump	CNP047	109	70	-2	107	1	107	210	-54	3	-10	46	
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres	Jul 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	210	-54	3	-5	45	48.4
			Road Roller	EPD-01183	97	60	-2	95	1	95	210	-54	3	-5	38	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	210	-54	3	-5	45	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S28	Diversion of Ferry Street Junction	Jul 2019 - Sep 2019	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	85	-47	3	-5	54	65.3
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	85	-47	3	-5	61	
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	85	-47	3	-5	58	
			Generator	CNP103	95	100	0	95	3	100	85	-47	3	-10	46	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	3	105	85	-47	3	-5	57	
			Road Roller	EPD-01183	97	70	-2	95	2	98	85	-47	3	-5	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	85	-47	3	-5	52	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	85	-47	3	0	45	
			Concrete pump	CNP047	109	80	-1	108	1	108	85	-47	3	-10	54	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-19	Generator	CNP103	95	100	0	95	1	95	45	-41	3	-10	47	64.9
			Lorry	CNP142	105	60	-2	103	1	103	45	-41	3	-5	60	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-5	56	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	45	-41	3	-10	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	45	-41	3	-5	54	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-5	64	65.2
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-10	60	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Dec 2019 - Mar 2020	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	45	-41	3	-5	60	65.3
			Generator	CNP103	95	100	0	95	1	95	45	-41	3	-10	47	
			Lorry	CNP142	105	70	-2	103	1	103	45	-41	3	-5	60	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-5	56	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	45	-41	3	-10	56	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	45	-41	3	-5	54	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Apr-20	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	45	-41	3	0	50	65.4
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-5	64	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-10	60	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	45	-41	3	-10	45	63.3
			Lorry	CNP142	105	90	0	105	1	105	45	-41	3	-5	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	45	-41	3	-5	54	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-5	56	
S30	Underpinning Works for YMT Police Station - Grouting	Mar 2019 - Jun 2019	Grout mixer	CNP105	90	70	-2	88	2	91	70	-45	3	-5	45	59.7
			Grout pump	CNP106	105	70	-2	103	2	106	70	-45	3	-5	60	
	Underpinning Works for YMT Police Station - Sokcet H Piling	Dec-18	Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	61.5
			Lorry	CNP142	105	60	-2	103	1	103	70	-45	3	-5	56	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	70	-45	3	-5	53	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	70	-45	3	-10	57	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	70	-45	3	-5	51	
			Grout mixer	CNP105	90	40	-4	86	1	86	70	-45	3	-5	39	
			Grout pump	CNP106	105	40	-4	101	1	101	70	-45	3	-5	54	
	Underpinning Works for YMT Police Station - micro-piling	Aug 2019 - Feb 2020	Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	60.5
			Lorry	CNP142	105	60	-2	103	1	103	70	-45	3	-5	56	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	70	-45	3	-10	57	
			Grout mixer	CNP105	90	40	-4	86	1	86	70	-45	3	-5	39	
			Grout pump	CNP106	105	40	-4	101	1	101	70	-45	3	-5	54	
	Underpinning Works for YMT Police Station - excavation	Jan 2020 - Feb 2020	Dump Truck with Grab	CNP069	105	80	-1	104	1	104	70	-45	3	-5	57	58.2
			Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	1	98	70	-45	3	-5	51	
	Underpinning Works for YMT Police Station - pipe piling	Jul 2020 - Mar 2021	Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	60.5
			Lorry	CNP142	105	60	-2	103	1	103	70	-45	3	-5	56	
			Drill rig, rotary type (diesel)	CNP 072	110	70	-2	108	1	108	70	-45	3	-10	57	
			Grout mixer	CNP105	90	40	-4	86	1	86	70	-45	3	-5	39	
			Grout pump	CNP106	105	40	-4	101	1	101	70	-45	3	-5	54	
	Underpinning Works for YMT Police Station - tam grouting	Apr 2021 - Jun 2021	Grout mixer	CNP105	90	70	-2	88	2	91	70	-45	3	-5	45	59.7
			Grout pump	CNP106	105	70	-2	103	2	106	70	-45	3	-5	60	
	Underpinning Works for YMT Police Station - Construct underpinning beam and slab	Jul 2021 - Sep 2021	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	70	-45	3	0	49	63.2
			Concrete Lorry Mixer	CNP044	109	40	-4	105	2	108	70	-45	3	-5	61	
			Concrete pump	CNP047	109	30	-5	104	1	104	70	-45	3	-10	52	
			Generator	CNP103	95	100	0	95	1	95	70	-45	3	-10	43	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	70	-45	3	-5	51	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	70	-45	3	-5	56	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-21	Generator	CNP103	95	100	0	95	1	95	95	-48	3	-10	40	58.4
			Lorry	CNP142	105	60	-2	103	1	103	95	-48	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	95	-48	3	-5	50	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	95	-48	3	-10	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	95	-48	3	-5	48	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Nov-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	95	-48	3	-5	57	58.8
			Concrete pump	CNP047	109	80	-1	108	1	108	95	-48	3	-10	53	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Sep 2021 - Oct 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	95	-48	3	-5	54	58.8
			Generator	CNP103	95	100	0	95	1	95	95	-48	3	-10	40	
			Lorry	CNP142	105	70	-2	103	1	103	95	-48	3	-5	54	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	95	-48	3	-5	50	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	95	-48	3	-10	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	95	-48	3	-5	47	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov 2021 - Dec 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	95	-48	3	0	44	58.9
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	95	-48	3	-5	57	
			Concrete pump	CNP047	109	80	-1	108	1	108	95	-48	3	-10	53	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Jan-22	Generator	CNP103	95	70	-2	93	1	93	95	-48	3	-10	39	56.8
			Lorry	CNP142	105	90	0	105	1	105	95	-48	3	-5	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	95	-48	3	-5	48	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	95	-48	3	-5	50	
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Mar-21	Generator	CNP103	95	100	0	95	1	95	150	-52	3	-10	36	54.4
			Lorry	CNP142	105	60	-2	103	1	103	150	-52	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	150	-52	3	-5	46	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	150	-52	3	-10	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	150	-52	3	-5	44	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Apr-21	Concrete Lorry Mixer	CNP044	109	50	-3	106	1	106	150	-52	3	-5	52	54.5
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	May 2021 - Jul 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	150	-52	3	-5	50	53.1
			Generator	CNP103	95	100	0	95	1	95	150	-52	3	-10	36	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	150	-52	3	-5	46	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	150	-52	3	-10	46	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	150	-52	3	-5	43	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Aug-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	150	-52	3	0	40	53.5
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	150	-52	3	-5	53	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Nov-21	Generator	CNP103	95	70	-2	93	1	93	150	-52	3	-10	35	51.0
			Lorry	CNP142	105	50	-3	102	1	102	150	-52	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	150	-52	3	-5	44	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	150	-52	3	-5	44	
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jun-21	Generator	CNP103	95	100	0	95	1	95	190	-54	3	-10	34	52.4
			Lorry	CNP142	105	60	-2	103	1	103	190	-54	3	-5	47	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	190	-54	3	-5	44	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	190	-54	3	-10	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	190	-54	3	-5	42	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jun-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	190	-54	3	-5	51	54.0
			Concrete pump	CNP047	109	80	-1	108	1	108	190	-54	3	-10	47	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Jul 2021 - Oct 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	190	-54	3	-5	48	52.7
			Generator	CNP103	95	100	0	95	1	95	190	-54	3	-10	34	
			Lorry	CNP142	105	70	-2	103	1	103	190	-54	3	-5	48	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	190	-54	3	-5	44	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	190	-54	3	-10	44	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	190	-54	3	-5	41	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	190	-54	3	0	38	52.9
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	190	-54	3	-5	51	
			Concrete pump	CNP047	109	80	-1	108	1	108	190	-54	3	-10	47	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Dec-21	Generator	CNP103	95	70	-2	93	1	93	190	-54	3	-10	33	50.8
			Lorry	CNP142	105	90	0	105	1	105	190	-54	3	-5	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	190	-54	3	-5	42	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	190	-54	3	-5	44	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S35	Demolish Multi-storey Carpark Buildking (remaining part)	Jun 2022 - Aug 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	80	-1	109	1	109	265	-56	3	-5	51	59
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	265	-56	3	-5	48	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	2	105	265	-56	3	-5	47	
			Forklift	XRL - HK Section EIA	104	20	-7	97	2	100	265	-56	3	-5	42	
			Concrete Core	CNP042	117	20	-7	110	2	113	265	-56	3	-5	55	
			Saw, concrete	CNP203	115	25	-6	109	2	112	265	-56	3	-5	54	
S36a	Demolish existing flyover	Jun 2022 - Aug 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	115	-49	3	-5	57	59.3
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	115	-49	3	-5	52	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	115	-49	3	-5	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	115	-49	3	-5	48	
			Saw, Wire	CNP205	101	60	-2	99	1	99	115	-49	3	-5	48	
S36b	Demolish existing flyover	Sep 2022 - Nov 2022	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	1	108	205	-54	3	-5	52	54.3
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	205	-54	3	-5	47	
			Concrete crusher, excavator mounted	CNP055	103	70	-2	101	1	101	205	-54	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	205	-54	3	-5	43	
			Saw, Wire	CNP205	101	60	-2	99	1	99	205	-54	3	-5	43	
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier	Sep 2021 - Dec 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	80	-46	3	-5	62	65.8
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	80	-46	3	-5	58	
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	80	-46	3	-5	51	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	80	-46	3	-5	54	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	80	-46	3	0	45	
			Concrete pump	CNP047	109	70	-2	107	1	107	80	-46	3	-10	54	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	80	-46	3	-10	60	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck	Oct 2021 - Dec 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	80	-46	3	-5	56	59.8
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	80	-46	3	-5	54	
			Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	80	-46	3	0	45	
			Concrete pump	CNP047	109	70	-2	107	1	107	80	-46	3	-10	54	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jan 2024 - Jul 2024	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	80	-46	3	-5	53	56.8
			Road Roller	EPD-01183	97	60	-2	95	1	95	80	-46	3	-5	47	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	80	-46	3	-5	54	
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier	May 2021 - Oct 2021	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	230	-55	3	-5	53	56.6
			Dump Truck with Grab	CNP069	105	60	-2	103	2	106	230	-55	3	-5	49	
			Generator	CNP103	95	100	0	95	3	100	230	-55	3	-10	38	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	50	-3	96	2	99	230	-55	3	-5	42	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	230	-55	3	-5	45	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	230	-55	3	0	36	
			Concrete pump	CNP047	109	70	-2	107	1	107	230	-55	3	-10	45	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	230	-55	3	-10	51	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck	Aug 2021 - Oct 2021	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	230	-55	3	-5	47	50.7
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	230	-55	3	-5	45	
			Generator	CNP103	95	100	0	95	3	100	230	-55	3	-10	38	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	230	-55	3	0	36	
			Concrete pump	CNP047	109	70	-2	107	1	107	230	-55	3	-10	45	
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Jan 2024 - Jul 2024	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	230	-55	3	-5	44	47.6
			Road Roller	EPD-01183	97	60	-2	95	1	95	230	-55	3	-5	38	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	230	-55	3	-5	45	
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Mar 2021 - Apr 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	75	-46	3	0	46	64.2
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	75	-46	3	-5	59	
			Concrete pump	CNP047	109	80	-1	108	1	108	75	-46	3	-10	56	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	75	-46	3	-5	56	
			Generator	CNP103	95	100	0	95	1	95	75	-46	3	-10	42	
			Lorry	CNP142	105	70	-2	103	1	103	75	-46	3	-5	56	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-5	52	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	75	-46	3	-10	52	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	75	-46	3	-5	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	75	-46	3	-5	49	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	75	-46	3	-10	41	58.9
			Lorry	CNP142	105	90	0	105	1	105	75	-46	3	-5	57	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	75	-46	3	-5	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-5	52	
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2022 - Feb 2022	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	130	-50	3	0	41	59.4
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	130	-50	3	-5	55	
			Concrete pump	CNP047	109	80	-1	108	1	108	130	-50	3	-10	51	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	130	-50	3	-5	51	
			Generator	CNP103	95	100	0	95	1	95	130	-50	3	-10	38	
			Lorry	CNP142	105	70	-2	103	1	103	130	-50	3	-5	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	130	-50	3	-5	47	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	130	-50	3	-10	47	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	130	-50	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	130	-50	3	-5	45	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	130	-50	3	-10	36	54.1
			Lorry	CNP142	105	90	0	105	1	105	130	-50	3	-5	52	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	130	-50	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	130	-50	3	-5	47	
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2022 - Feb 2022	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	165	-52	3	0	39	57.3
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	165	-52	3	-5	52	
			Concrete pump	CNP047	109	80	-1	108	1	108	165	-52	3	-10	49	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	165	-52	3	-5	49	
			Generator	CNP103	95	100	0	95	1	95	165	-52	3	-10	36	
			Lorry	CNP142	105	70	-2	103	1	103	165	-52	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	165	-52	3	-10	45	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	165	-52	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	165	-52	3	-5	42	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	165	-52	3	-10	34	52.0
			Lorry	CNP142	105	90	0	105	1	105	165	-52	3	-5	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	165	-52	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
S42	Demolish special clinic extension building	Aug 2020 - Dec 2020	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	70	-2	108	1	108	130	-50	3	-5	56	60.9
			Dump Truck with Grab	CNP069	105	70	-2	103	3	108	130	-50	3	-5	56	
			Concrete crusher, excavator mounted	CNP055	103	90	0	103	2	106	130	-50	3	-5	53	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	130	-50	3	-5	50	
			Saw, Wire	CNP205	101	70	-2	99	2	102	130	-50	3	-5	50	
			Generator	CNP103	95	100	0	95	2	98	130	-50	3	-10	41	
S43	Excavation of Tunnel Tubes (under cover of traffic deck)	Dec 2020 - Jan 2021, Oct 2021 - Dec 2021	Generator	CNP103	95	100	0	95	10	105	45	-41	3	-20	47	65.2
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	5	105	45	-41	3	-20	47	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	5	114	45	-41	3	-20	56	
			Ventilation Fan	CNP241	108	90	0	108	10	118	45	-41	3	-15	64	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	12	96	45	-41	3	-20	38	
S44	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Apr-20	Generator	CNP103	95	100	0	95	3	100	50	-42	3	-10	51	62.4
			Lorry	CNP142	105	60	-2	103	1	103	85	-47	3	-5	54	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	3	114	85	-47	3	-10	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-20	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	85	-47	3	-5	61	62.0
			Concrete pump	CNP047	109	80	-1	108	1	108	85	-47	3	-10	54	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	May 2020 - Jun 2020	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	85	-47	3	-5	55	60.4
			Generator	CNP103	95	100	0	95	4	101	85	-47	3	-10	47	
			Lorry	CNP142	105	70	-2	103	1	103	85	-47	3	-5	55	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	2	108	85	-47	3	-10	54	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	85	-47	3	-5	48	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Jul-20	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	85	-47	3	0	45	62.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	85	-47	3	-5	61	
			Concrete pump	CNP047	109	80	-1	108	1	108	85	-47	3	-10	54	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Aug-20	Generator	CNP103	95	70	-2	93	1	93	85	-47	3	-10	40	60.5
			Lorry	CNP142	105	90	0	105	2	108	85	-47	3	-5	59	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	85	-47	3	-5	54	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S45	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jan-21	Generator	CNP103	95	100	0	95	3	100	130	-50	3	-10	42	58.5
			Lorry	CNP142	105	60	-2	103	1	103	130	-50	3	-5	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	130	-50	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	3	114	130	-50	3	-10	57	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	130	-50	3	-5	45	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jan-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	130	-50	3	-5	58	58.3
			Concrete pump	CNP047	109	80	-1	108	1	108	130	-50	3	-10	51	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Feb 2021 - Mar 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	130	-50	3	-5	51	56.7
			Generator	CNP103	95	100	0	95	4	101	130	-50	3	-10	44	
			Lorry	CNP142	105	70	-2	103	1	103	130	-50	3	-5	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	130	-50	3	-5	47	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	2	108	130	-50	3	-10	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	130	-50	3	-5	45	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Apr-21	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	130	-50	3	0	41	58.4
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	130	-50	3	-5	58	
			Concrete pump	CNP047	109	80	-1	108	1	108	130	-50	3	-10	51	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	May-21	Generator	CNP103	95	70	-2	93	1	93	130	-50	3	-10	36	56.8
			Lorry	CNP142	105	90	0	105	2	108	130	-50	3	-5	55	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	130	-50	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	2	102	130	-50	3	-5	50	
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)	Oct 2021 - Jan 2022	Generator	CNP103	95	100	0	95	4	101	65	-44	3	-20	40	58.0
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	65	-44	3	-20	40	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	65	-44	3	-20	49	
			Ventilation Fan	CNP241	108	90	0	108	4	114	65	-44	3	-15	57	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	65	-44	3	-20	30	
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)	Feb 2022 - May 2022	Generator	CNP103	95	100	0	95	3	100	80	-46	3	-20	37	55.2
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	80	-46	3	-20	38	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	80	-46	3	-20	47	
			Ventilation Fan	CNP241	108	90	0	108	3	112	80	-46	3	-15	54	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	80	-46	3	-20	28	
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)	Jun 2022 - Sep 2022	Generator	CNP103	95	100	0	95	3	100	155	-52	3	-20	31	49.1
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	155	-52	3	-20	32	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	1	107	155	-52	3	-20	38	
			Ventilation Fan	CNP241	108	90	0	108	3	112	155	-52	3	-15	49	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	155	-52	3	-20	22	
S47a	Underpinning of Existing Bridges (under cover of traffic deck)	Jun 2020 - Dec 2020	Generator	CNP103	95	100	0	95	1	95	45	-41	3	-20	37	56.8
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	45	-41	3	-20	30	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-20	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-20	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-20	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	45	-41	3	-20	39	
			Ventilation Fan	CNP241	108	90	0	108	1	108	45	-41	3	-15	54	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	45	-41	3	-20	27	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Feb 2022 - Nov 2022	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	45	-41	3	-20	30	61.3
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	45	-41	3	-20	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-20	50	
			Generator	CNP103	95	100	0	95	2	98	45	-41	3	-20	40	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	45	-41	3	-20	41	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	45	-41	3	-20	42	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	45	-41	3	-20	39	
			Ventilation Fan	CNP241	108	90	0	108	4	114	45	-41	3	-15	60	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	45	-41	3	-20	33	
S47b	Underpinning of Existing Bridges (under cover of traffic deck)	Oct 2020 - Apr 2021	Generator	CNP103	95	100	0	95	1	95	95	-48	3	-20	30	50.3
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	95	-48	3	-20	24	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	95	-48	3	-20	42	
			Concrete pump	CNP047	109	80	-1	108	1	108	95	-48	3	-20	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	95	-48	3	-20	35	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	95	-48	3	-20	32	
			Ventilation Fan	CNP241	108	90	0	108	1	108	95	-48	3	-15	48	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	95	-48	3	-20	20	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jun 2022 - Mar 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	95	-48	3	-20	23	54.8
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	95	-48	3	-20	42	
			Concrete pump	CNP047	109	80	-1	108	1	108	95	-48	3	-20	43	
			Generator	CNP103	95	100	0	95	2	98	95	-48	3	-20	33	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	95	-48	3	-20	35	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	95	-48	3	-20	36	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	95	-48	3	-20	33	
			Ventilation Fan	CNP241	108	90	0	108	4	114	95	-48	3	-15	54	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	95	-48	3	-20	26	
S47c	Underpinning of Existing Bridges (under cover of traffic deck)	May 2020 - Sep 2020	Generator	CNP103	95	100	0	95	1	95	155	-52	3	-20	26	46.1
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	155	-52	3	-20	20	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	155	-52	3	-20	38	
			Concrete pump	CNP047	109	80	-1	108	1	108	155	-52	3	-20	39	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	155	-52	3	-20	31	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	155	-52	3	-20	28	
			Ventilation Fan	CNP241	108	90	0	108	1	108	155	-52	3	-15	44	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	155	-52	3	-20	16	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Oct 2022 - Jul 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	155	-52	3	-20	19	50.6
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	155	-52	3	-20	38	
			Concrete pump	CNP047	109	80	-1	108	1	108	155	-52	3	-20	39	
			Generator	CNP103	95	100	0	95	2	98	155	-52	3	-20	29	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	155	-52	3	-20	31	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	155	-52	3	-20	32	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	155	-52	3	-20	29	
			Ventilation Fan	CNP241	108	90	0	108	4	114	155	-52	3	-15	50	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	155	-52	3	-20	22	
S49	Underpinning of Existing Bridges (under cover of traffic deck)	Feb 2021 - Nov 2021	Generator	CNP103	95	100	0	95	1	95	40	-40	3	-20	38	57.9
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	40	-40	3	-20	31	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	40	-40	3	-20	50	
			Concrete pump	CNP047	109	80	-1	108	1	108	40	-40	3	-20	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	40	-40	3	-20	42	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	40	-40	3	-20	40	
			Ventilation Fan	CNP241	108	90	0	108	1	108	40	-40	3	-15	56	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	40	-40	3	-20	28	
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Dec 2021 - May 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	75	-46	3	-5	62	67.9
			Concrete pump	CNP047	109	80	-1	108	1	108	75	-46	3	-10	56	
			Generator	CNP103	95	100	0	95	3	100	75	-46	3	-10	47	
			Lorry	CNP142	105	70	-2	103	2	106	75	-46	3	-5	59	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	75	-46	3	-5	56	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	75	-46	3	-10	61	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	75	-46	3	-5	53	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	75	-46	3	-5	61	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	75	-46	3	-5	56	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Nov 2022 - Jan 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-5	52	57.5
			Generator	CNP103	95	100	0	95	1	95	75	-46	3	-10	42	
			Lorry	CNP142	105	70	-2	103	1	103	75	-46	3	-5	56	
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Jul 2021 - Jul 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	55	-43	3	-5	65	70.6
			Concrete pump	CNP047	109	80	-1	108	1	108	55	-43	3	-10	58	
			Generator	CNP103	95	100	0	95	3	100	55	-43	3	-10	50	
			Lorry	CNP142	105	70	-2	103	2	106	55	-43	3	-5	62	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	55	-43	3	-5	59	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	55	-43	3	-10	63	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	55	-43	3	-5	56	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	55	-43	3	-5	63	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	55	-43	3	-5	59	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Jun 2022 - Oct 2022	Crane Mobile	BS D7-114	101	70	-2	99	1	99	55	-43	3	-5	55	60.2
			Generator	CNP103	95	100	0	95	1	95	55	-43	3	-10	45	
			Lorry	CNP142	105	70	-2	103	1	103	55	-43	3	-5	59	

Build King - SKEC Joint Venture
Construction Noise Assessment
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Noise Sensitive Receiver: W-N25A Prosperous Garden Block 1
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Aug 2022 - Oct 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	16	-32	3	-5	72	79.4
			Concrete pump	CNP047	109	80	-1	108	1	108	16	-32	3	-10	69	
			Generator	CNP103	95	100	0	95	3	100	16	-32	3	-10	60	
			Lorry	CNP142	105	70	-2	103	1	103	16	-32	3	-5	69	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	16	-32	3	-5	67	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	16	-32	3	-10	74	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	16	-32	3	-5	66	
			Compactor, vibratory	CNP050	105	50	-3	102	2	105	16	-32	3	-5	71	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	16	-32	3	-5	69	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting	Apr 2023 - Sep 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	16	-32	3	-5	65	70.7
			Generator	CNP103	95	100	0	95	1	95	16	-32	3	-10	56	
			Lorry	CNP142	105	70	-2	103	1	103	16	-32	3	-5	69	
S50d	Road works for re-align Ferry Street at-grade road	Oct 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	25	-36	3	-5	65	74.3
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	25	-36	3	-5	69	
			Concrete pump	CNP047	109	80	-1	108	1	108	25	-36	3	-10	65	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	25	-36	3	-5	65	
			Generator	CNP103	103	100	0	103	1	103	25	-36	3	-10	60	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	25	-36	3	-10	57	
			Road Roller	EPD-01183	97	80	-1	96	1	96	25	-36	3	-5	58	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	1	110	25	-36	3	-10	67	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	25	-36	3	-5	59	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	25	-36	3	-5	61	
S51	Demolish the Existing Ferr Street Subway	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	50	-3	107	1	107	65	-44	3	-5	61	64.8
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	65	-44	3	-5	60	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	1	102	65	-44	3	-5	56	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	65	-44	3	-5	53	
			Saw, Wire	CNP205	101	70	-2	99	1	99	65	-44	3	-5	53	
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls	Oct 2021 - Nov 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	65	-44	3	-5	57	62.1
			Generator	CNP103	95	100	0	95	1	95	65	-44	3	-10	44	
			Lorry	CNP142	105	70	-2	103	1	103	65	-44	3	-5	57	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	65	-44	3	-5	53	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	65	-44	3	-10	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	65	-44	3	-5	51	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls	Sep 2021 - Nov 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	65	-44	3	0	47	62.2
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	65	-44	3	-5	61	
			Concrete pump	CNP047	109	80	-1	108	1	108	65	-44	3	-10	57	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck	Dec 2021	Generator	CNP103	95	70	-2	93	1	93	65	-44	3	-10	42	60.1
			Lorry	CNP142	105	90	0	105	1	105	65	-44	3	-5	58	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	65	-44	3	-5	51	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	65	-44	3	-5	53	
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls	Oct 2021 - Nov 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	115	-49	3	-5	52	57.1
			Generator	CNP103	95	100	0	95	1	95	115	-49	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	115	-49	3	-5	52	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	115	-49	3	-5	48	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	115	-49	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	115	-49	3	-5	46	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls	Sep 2021 - Nov 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	115	-49	3	0	42	57.2
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	115	-49	3	-5	56	
			Concrete pump	CNP047	109	80	-1	108	1	108	115	-49	3	-10	52	
	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck	Dec 2021	Generator	CNP103	95	70	-2	93	1	93	115	-49	3	-10	37	55.2
			Lorry	CNP142	105	90	0	105	1	105	115	-49	3	-5	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	115	-49	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	115	-49	3	-5	48	
S55a	Reinstate the affected roads and footpaths	Nov 2023 - Feb 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	75	-46	3	-5	56	62.2
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	75	-46	3	-5	59	
			Generator	CNP103	95	100	0	95	1	95	75	-46	3	-10	42	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	2	103	75	-46	3	-10	50	
			Road Roller	EPD-01183	97	70	-2	95	1	95	75	-46	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	75	-46	3	-5	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-5	52	
	Road works for Section between Ferry Street and Nathan Road	Mar 2024 - Nov 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	75	-46	3	-5	56	64.6
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	75	-46	3	-5	62	
			Concrete pump	CNP047	109	80	-1	108	1	108	75	-46	3	-10	56	
			Generator	CNP103	95	100	0	95	2	98	75	-46	3	-10	46	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	2	103	75	-46	3	-10	51	
			Road Roller	EPD-01183	97	80	-1	96	1	96	75	-46	3	-5	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	75	-46	3	-5	50	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	75	-46	3	-5	52	
S55b	Reinstate the affected roads and footpaths	Nov 2023 - Feb 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	175	-53	3	-5	48	54.7
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	175	-53	3	-5	52	
			Generator	CNP103	95	100	0	95	1	95	175	-53	3	-10	35	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	175	-53	3	-10	40	
			Road Roller	EPD-01183	97	70	-2	95	1	95	175	-53	3	-5	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	175	-53	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	175	-53	3	-5	45	
	Road works for Section between Ferry Street and Nathan Road	Mar 2024 - Nov 2024	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	175	-53	3	-5	48	55.6
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	175	-53	3	-5	52	
			Concrete pump	CNP047	109	80	-1	108	1	108	175	-53	3	-10	48	
			Generator	CNP103	95	100	0	95	1	95	175	-53	3	-10	35	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	175	-53	3	-10	41	
			Road Roller	EPD-01183	97	80	-1	96	1	96	175	-53	3	-5	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	175	-53	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	175	-53	3	-5	45	
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	May 2021 - Sep 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	50	-42	3	-20	29	62.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	50	-42	3	-20	51	
			Concrete pump	CNP047	109	80	-1	108	1	108	50	-42	3	-20	49	
			Generator	CNP103	95	100	0	95	3	100	50	-42	3	-20	41	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-20	40	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	50	-42	3	-20	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	50	-42	3	-20	38	
			Ventilation Fan	CNP241	108	90	0	108	6	115	50	-42	3	-15	61	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	50	-42	3	-20	34	
	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Apr 2024	Compactor, vibratory	CNP050	105	70	-2	103	1	103	50	-42	3	-20	44	47.4
			Generator	CNP103	95	100	0	95	2	98	50	-42	3	-20	39	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	50	-42	3	-20	41	
			Road Roller	EPD-01183	97	80	-1	96	1	96	50	-42	3	-20	37	
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Mar 2022 - Dec 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	135	-51	3	-20	20	53.0
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	135	-51	3	-20	42	
			Concrete pump	CNP047	109	70	-2	107	1	107	135	-51	3	-20	40	
			Generator	CNP103	95	100	0	95	3	100	135	-51	3	-20	32	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	135	-51	3	-20	32	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	135	-51	3	-20	33	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	135	-51	3	-20	30	
			Ventilation Fan	CNP241	108	80	-1	107	6	115	135	-51	3	-15	52	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	135	-51	3	-20	25	
	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Apr 2024	Compactor, vibratory	CNP050	105	70	-2	103	1	103	135	-51	3	-20	36	38.8
			Generator	CNP103	95	100	0	95	2	98	135	-51	3	-20	30	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	135	-51	3	-20	33	
			Road Roller	EPD-01183	97	80	-1	96	1	96	135	-51	3	-20	28	
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure	Apr 2018 - Jun 2018	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	1	99	160	-52	3	-5	45	47.2
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	
		Jul 2018 - Dec 2018	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	160	-52	3	0	42	57.2
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	160	-52	3	-5	55	
			Concrete pump	CNP047	109	70	-2	107	1	107	160	-52	3	-10	48	
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	160	-52	3	-5	44	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	160	-52	3	-5	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	

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Worksite	Activity	2018												2019												2020												2021												2022												2023												2024											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post							59.6																																																																																
S3	Construct Dwall and Traffic Deck - Diaphragm Walls								59.3	59.3	59.3	59.3																																																																													
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls											57.5	57.5	57.5																																																																										
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls														57.6																																																																							
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck															55.6																																																																					
S4	Construction of Methodone Clinic				61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3																																																																									
S5	Decant and demolish existing Jade Market																																				56.9																																																
S6	Decant and demolish existing Jade Market																																				56.9																																																
S7	Construction of Temporary Library & Temporary Jade Market Foundation																	58.0	58.0	58.0	58.0	58.0	58.0																																																														
S7	Construction of Temporary Library & Temporary Jade Market Superstructure																							55.7	55.7	55.7	55.7																																																													
S8	Construction of Western Access Shaft - Ex cavation of Diaphragm Walls				53.8																																																																																		
S8	Construct Western Access Shaft - Concreting of Diaphragm Wall					53.8																																																																															
S8	Construct Western Access Shaft - Soil Excavation of Access Shaft																								53.3																																																															
S8	Construct Western Access Shaft - Rock Excavation of Access Shaft																									63.8	63.8	63.8																																																										
S8	Construct Western Access Shaft - Cast Bottom Slab																												56.6																																																											
S13a	Removal of Excavated Material through West End Portal																										62.6	62.6	62.6																																																												
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post																							62.4																																																														
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																								62.1	62.1	62.1	62.1	62.1																																																											
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																													58.3																																																										
S16b	Construct Middle Dwall and Traffic Deck - Piling for King Post																															55.5																																																									
S16b	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																																						56.1	56.1	56.1	56.1																																																		
S16b	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																																															52.3																																									
S17	Decant Library and Government Offices in MSCB																																																																																									
S18	Demolish Multi-storey Carpark Buildking (partially)																																							59.4	59.4	59.4	59.4																																																		
S25	Construction Middle Dwall and Traffic Deck (cross road sections) Diaphragm Walls																																									60.1																																																			
S25	Construction Middle Dwall and Traffic Deck (cross road sections) Temporary Traffic Deck																																															54.8																																									
S26	Construction Middle Dwall and Traffic Deck (cross road sections) Diaphragm Walls																																									57.3																																																			
S26	Construction Middle Dwall and Traffic Deck (cross road sections) Temporary Traffic Deck																																															52.0																																									
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier																														66.2	66.2	66.2	66.2	66.2	66.2	66.2																																																									
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck																																									59.8	59.8	59.8																																																		
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																						56.8	56.8	56.8	56.8	56.8	56.8												
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier																																		57.4	57.4	57.4	57.4	57.4	57.4	57.4																																																				
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck																																									51.5	51.5	51.5																																																		
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres																																																																					48.4	48.4	48.4	48.4	48.4	48.4												
S28	Diversion of Ferry Street Junction																			65.3	65.3	65.3																																																																		
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																							64.9																																																															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																							65.2																																																															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																								65.3	65.3	65.3	65.3																																																												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																												65.4																																																											
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																													63.3																																																										
S30	Underpinning Works for YMT Police Station - Grouting															59.7	59.7	59.7	59.7																																																																			
S30	Underpinning Works for YMT Police Station - Sokcet H Piling												61.5																																																																									
S30	Underpinning Works for YMT Police Station - micro-piling																				60.5	60.5	60.5	60.5	60.5	60.5	60.5																																																											
S30	Underpinning Works for YMT Police Station - excavation																									58.2	58.2																																																															
S30	Underpinning Works for YMT Police Station - pipe piling																															60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5																																																				
S30	Underpinning Works for YMT Police Station - tam grouting																																								59.7	59.7	59.7																																																	
S30	Underpinning Works for YMT Police Station - Construct underpinning beam and slab																																											63.2	63.2	63.2																																											
S31	Decant YMT Police Station																																																																																								
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																															58.4																																									
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																															58.8																																									
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																													58.8	58.8																																									
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																															58.9	58.9																																						
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																																	56.8																																							
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																							54.4																																																			
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																								54.5																																																			
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																									53.1	53.1	53.1																																																		
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																												53.5																																																	
S33	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																															51.0																																									
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																										52.4																																																		
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																										54.0																																																		
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																											52.7	52.7	52.7	52.7																																															
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																															52.9																																									
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																																50.8																																								
S35	Demolish Multi-storey Carpark Buildking (remaining part)																																																						58.7	58.7	58.7																																					
S36a	Demolish existing flyover																																																							59.5	59.5	59.5																																					
S36b	Demolish existing flyover																																																									54.3	54.3	54.3																																						
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier																																													65.8	65.8	65.8	65.8																																											
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																														59.8	59.8	59.8																																											
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																													56.8	56.8	56.8	56.8	56.8	56.8	56.8					
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier																																									56.6	56.6	56.6	56.6	56.6	56.6																																																
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck																																												50.7	50.7	50.7																																																
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres																																																																													47.6	47.6	47.6	47.6	47.6	47.6	47.6					
S39	Construct Southern Dwall and Traffic Deck (cross road sections) Diaphragm Walls																																							64.2	64.2																																																					
S39	Construct Southern Dwall and Traffic Deck (cross road sections) Temporary Traffic Deck																																																			58.9																																						

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Associated Cumulative Noise Levels

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		2018												2019												2020												2021												2022												2023												2024											
Worksite	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	59.4	59.4																																		
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			54.1																																	
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																																	57.3	57.3																																		
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																																			52.0																																	
S42	Demolish special clinic extension building																																60.9	60.9	60.9	60.9	60.9																																																	
S43	Excavation of Tunnel Tubes (under cover of traffic deck)																																				65.2	65.2									65.2	65.2	65.2																																				
S44	Construct Southern Dwall & Traffic Deck - Piling for King Post																												62.4																																																													
S44	Construct Southern Dwall &Traffic Deck - Grouting for King Post																												62.0																																																													
S44	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls																													60.4	60.4																																																											
S44	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																															62.1																																																										
S44	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck																																60.5																																																								
S45	Construct Northern Dwall & Traffic Deck - Piling for King Post																																					58.5																																																			
S45	Construct Northern Dwall &Traffic Deck - Grouting for King Post																																					58.3																																																			
S45	Construct Northern Dwall & Traffic Deck - Excavation for Diaphragm Walls																																						56.7	56.7																																																	
S45	Construct Northern Dwall &Traffic Deck - Concreting for Diaphragm Walls																																								58.4																																																
S45	Construct Northern Dwall & Traffic Deck - Temporary Traffic Deck																																									56.8																																														
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)																																														58.0	58.0	58.0	58.0																																		
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																																		55.2	55.2	55.2	55.2																															
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)																																																						49.1	49.1	49.1	49.1																											
S47a	Underpinning of Existing Bridges (under cover of traffic deck)																														56.8	56.8	56.8	56.8	56.8	56.8	56.8																																																	
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																		61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3																									
S47b	Underpinning of Existing Bridges (under cover of traffic deck)																																		50.3	50.3	50.3	50.3	50.3	50.3	50.3																																														
S47b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																						54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8																							
S47c	Underpinning of Existing Bridges (under cover of traffic deck)																													46.1	46.1	46.1	46.1	46.1																																																							
S47c	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																										50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6																			
S49	Underpinning of Existing Bridges (under cover of traffic deck)																																						57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9																																										
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																67.9	67.9	67.9	67.9	67.9	67.9																																		
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																												57.5	57.5	57.5																										
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																											70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6																																									
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																						60.2	60.2	60.2	60.2	60.2																																					
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																																								79.4	79.4	79.4																													
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																																																		70.7	70.7	70.7	70.7	70.7	70.7															
S50d	Road works for re-align Ferry Street at-grade road																																																																								74.3	74.3	74.3												
S51	Demolish the Existing Ferr Street Subway																																				64.8																																																				
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														62.1	62.1																																						
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													62.2	62.2	62.2																																						
S52	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck																																																60.1																																				
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls																																														57.1	57.1																																						
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls																																													57.2	57.2	57.2																																						
S53	Construct Northern Dwall & Traffic Deck (cross road sections) - Temporary Traffic Deck																																																55.2																																				
S55a	Reinstate the affected roads and footpaths																																																																									62.2	62.2	62.2	62.2										
S55a	Road works for Section between Ferry Street and Nathan Road																																																																													64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	
S55b	Reinstate the affected roads and footpaths																																																																								54.7	54.7	54.7	54.7										
S55b	Road works for Section between Ferry Street and Nathan Road																																																																													55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																									62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1																
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffi deck)																																																																												47.4	47.4	47.4	47.4								
S56b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																																			53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0												
S56b	Backfilling on Top of Cut and Cover Tunnel (under cover of traffi deck)																																																																											38.8	38.8	38.8	38.8								
S58	Construction of Temporary Maternal and Child Health Centre Foundation				47.2	47.2	47.2																																																																																
S58	Construction of Temporary Maternal and Child Health Centre Superstructure							57.2	57.2	57.2	57.2	57.2	57.2																																																																										
	Total SPL (YMTE only), dB(A)	-	-	-	62	62	61	64	64	64	64	65	66	63	58	61	60	62	62	66	66	66	58	69	67	69	70	70	70	66	68	68	68	68	68	68	71	67	63	68	68	69	67	72	72	73	75	75	75	73	73	73	73	73	72	72	80	80	80	66	64	64	63	63	71	71	71	72	72	72	74	75	75	64	64	66	66	66	66	66	65	65	65	65	-
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)	58 - 80																																																																																					
	Total SPL (YMTW only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	59	64	65	64	64	63	63	62	62	62	60	60	60	60	60	60	60	60	59	59	59	59	59	59	59	61	61	61	61	61	61	61	61	59	-	-	62	62	62	62	62	62	58	58	58	58	58	58	58	58	58	58	58	-	-												
	Cumulative SPL (YMTE+YMTW), dB(A)	-	-	-	62	62	61	64	64	64	64	65	66	63	58	61	60	64	64	68	69	68	65	70	69	70	70	70	71	67	68	69	69	68	69	69	72	68	65	68	68	69	68	72	72	74	75	75	75	74	74	74	73	73	73	73	80	80	80	68	65	65	65	65	72	72	72	72	72	72	75	75	75	64	64	66	66	66	66	66	65	65	65	65	-
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-												

Notes:

[1] For works that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Works located outside 300m boundary of the NSR are not assessed

[3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

[4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S3	Construct Dwall and Traffic Deck - Piling for King Post	Jul-18	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	165	-52	3	-5	52	56
			Concrete pump	CNP047	109	80	-1	108	1	108	165	-52	3	-10	49	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	165	-52	3	-5	49	
			Generator	CNP103	95	100	0	95	2	98	165	-52	3	-10	39	
			Lorry	CNP142	105	60	-2	103	1	103	165	-52	3	-5	48	
			or													
			Generator	CNP103	95	100	0	95	2	98	165	-52	3	-10	39	55
			Lorry	CNP142	105	60	-2	103	1	103	165	-52	3	-5	48	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	165	-52	3	-10	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	165	-52	3	-5	43	
	Construct Dwall and Traffic Deck - Diaphragm Walls	Aug 2018 - Nov 2018	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	165	-52	3	0	39	56
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	165	-52	3	-5	52	
			Concrete pump	CNP047	109	80	-1	108	1	108	165	-52	3	-10	49	
			Generator	CNP103	95	100	0	95	2	98	165	-52	3	-10	39	
			Lorry	CNP142	105	70	-2	103	1	103	165	-52	3	-5	49	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	165	-52	3	-5	45	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	165	-52	3	-5	49	52
			Generator	CNP103	95	100	0	95	2	98	165	-52	3	-10	39	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	165	-52	3	-10	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	165	-52	3	-5	42	
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Nov 2018 - Jan 2019	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	165	-52	3	-5	49	54
			Generator	CNP103	95	100	0	95	1	95	165	-52	3	-10	36	
			Lorry	CNP142	105	70	-2	103	1	103	165	-52	3	-5	49	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
			Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	165	-52	3	-10	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	165	-52	3	-5	42	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Feb-19	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	165	-52	3	0	39	54
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	165	-52	3	-5	52	
			Concrete pump	CNP047	109	80	-1	108	1	108	165	-52	3	-10	49	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Mar-19	Generator	CNP103	95	70	-2	93	1	93	165	-52	3	-10	34	52
			Lorry	CNP142	105	90	0	105	1	105	165	-52	3	-5	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	165	-52	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
S13a	Removal of Excavated Material through West End Portal	Feb 2020 - Apr 2020	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	165	-52	3	-5	59	59
16a	Construct Dwall and Traffic Deck - Piling for King Post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	285	-57	3	-5	48	51
			Concrete pump	CNP047	109	80	-1	108	1	108	285	-57	3	-10	44	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	285	-57	3	-5	44	
			Generator	CNP103	95	100	0	95	2	98	285	-57	3	-10	34	
			Lorry	CNP142	105	60	-2	103	1	103	285	-57	3	-5	44	
			or													
			Generator	CNP103	95	100	0	95	2	98	285	-57	3	-10	34	50
			Lorry	CNP142	105	60	-2	103	1	103	285	-57	3	-5	44	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	285	-57	3	-5	40	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	285	-57	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	285	-57	3	-5	38	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Dec 2019 Apr 2020	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	285	-57	3	0	34	51
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	285	-57	3	-5	48	
			Concrete pump	CNP047	109	80	-1	108	1	108	285	-57	3	-10	44	
			Generator	CNP103	95	100	0	95	2	98	285	-57	3	-10	34	
			Lorry	CNP142	105	70	-2	103	1	103	285	-57	3	-5	44	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	285	-57	3	-5	41	
			or													
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	285	-57	3	-5	44	48
			Generator	CNP103	95	100	0	95	2	98	285	-57	3	-10	34	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	285	-57	3	-5	40	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	285	-57	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	285	-57	3	-5	38	
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	285	-57	3	-10	29	47
			Lorry	CNP142	105	90	0	105	1	105	285	-57	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	285	-57	3	-5	38	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	285	-57	3	-5	40	
S28	Diversion of Ferry Street Junction	Jul 2019 - Sep 2019	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	150	-52	3	-5	50	60
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	150	-52	3	-5	56	
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	150	-52	3	-5	53	
			Generator	CNP103	95	100	0	95	3	100	150	-52	3	-10	41	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	3	105	150	-52	3	-5	52	
			Road Roller	EPD-01183	97	70	-2	95	2	98	150	-52	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	150	-52	3	-5	47	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	150	-52	3	-5	46	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	150	-52	3	0	40	
			Concrete pump	CNP047	109	80	-1	108	1	108	150	-52	3	-10	50	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-19	Generator	CNP103	95	100	0	95	1	95	215	-55	3	-10	33	51
			Lorry	CNP142	105	60	-2	103	1	103	215	-55	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	215	-55	3	-5	43	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	215	-55	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	215	-55	3	-5	41	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Nov-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	215	-55	3	-5	50	52
			Concrete pump	CNP047	109	80	-1	108	1	108	215	-55	3	-10	46	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Dec 2019 - Mar 2020	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	215	-55	3	-5	47	52
			Generator	CNP103	95	100	0	95	1	95	215	-55	3	-10	33	
			Lorry	CNP142	105	70	-2	103	1	103	215	-55	3	-5	47	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	215	-55	3	-5	43	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	215	-55	3	-10	43	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	215	-55	3	-5	40	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Apr-20	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	215	-55	3	0	37	52
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	215	-55	3	-5	50	
			Concrete pump	CNP047	109	80	-1	108	1	108	215	-55	3	-10	46	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	May-20	Generator	CNP103	95	70	-2	93	1	93	215	-55	3	-10	32	50
			Lorry	CNP142	105	90	0	105	1	105	215	-55	3	-5	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	215	-55	3	-5	41	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	215	-55	3	-5	43	
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-21	Generator	CNP103	95	100	0	95	1	95	295	-57	3	-10	31	48.5
			Lorry	CNP142	105	60	-2	103	1	103	295	-57	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	295	-57	3	-5	40	
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	1	109	295	-57	3	-10	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	295	-57	3	-5	38	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Nov-21	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	295	-57	3	-5	47	48.9
			Concrete pump	CNP047	109	80	-1	108	1	108	295	-57	3	-10	44	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Sep 2021 Oct 2021	Dump Truck with Grab	CNP069	105	70	-2	103	1	103	295	-57	3	-5	44	48.9
			Generator	CNP103	95	100	0	95	1	95	295	-57	3	-10	31	
			Lorry	CNP142	105	70	-2	103	1	103	295	-57	3	-5	44	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	295	-57	3	-5	40	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	295	-57	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	295	-57	3	-5	37	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov 2021 - Dec 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	295	-57	3	0	34	49.1
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	295	-57	3	-5	47	
			Concrete pump	CNP047	109	80	-1	108	1	108	295	-57	3	-10	44	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Jan 2020	Generator	CNP103	95	70	-2	93	1	93	295	-57	3	-10	29	47
			Lorry	CNP142	105	90	0	105	1	105	295	-57	3	-5	45	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	295	-57	3	-5	38	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	295	-57	3	-5	40	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Mar 2021 - Apr 2021	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	260	-56	3	0	35	53
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	260	-56	3	-5	48	
			Concrete pump	CNP047	109	80	-1	108	1	108	260	-56	3	-10	45	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	260	-56	3	-5	45	
			Generator	CNP103	95	100	0	95	1	95	260	-56	3	-10	32	
			Lorry	CNP142	105	70	-2	103	1	103	260	-56	3	-5	45	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	260	-56	3	-5	41	
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	260	-56	3	-10	41	
			Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	260	-56	3	-5	41	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	260	-56	3	-5	38	
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-22	Generator	CNP103	95	70	-2	93	1	93	260	-56	3	-10	30	48
			Lorry	CNP142	105	90	0	105	1	105	260	-56	3	-5	46	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	260	-56	3	-5	39	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	260	-56	3	-5	41	
S43	Excavation of Tunnel Tubes (under cover of traffic deck)	Dec 2020 - Jan 2021, Oct 2021 - Dec 2021	Generator	CNP103	95	100	0	95	10	105	210	-54	3	-20	34	52
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	5	105	210	-54	3	-20	34	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	5	114	210	-54	3	-20	43	
			Ventilation Fan	CNP241	108	90	0	108	10	118	210	-54	3	-15	51	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	12	96	210	-54	3	-20	24	
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)	Sep 2020 - Apr 2022	Generator	CNP103	95	100	0	95	4	101	195	-54	3	-20	30	48
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	195	-54	3	-20	30	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	195	-54	3	-20	39	
			Ventilation Fan	CNP241	108	90	0	108	4	114	195	-54	3	-15	48	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	195	-54	3	-20	20	
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)	Sep 2020 - Apr 2022	Generator	CNP103	95	100	0	95	3	100	275	-57	3	-20	26	44
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	80	-1	98	2	101	275	-57	3	-20	27	
			Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	275	-57	3	-20	36	
			Ventilation Fan	CNP241	108	90	0	108	3	112	275	-57	3	-15	44	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	275	-57	3	-20	17	
S47a	Underpinning of Existing Bridges (under cover of traffic deck)	Jun 2020 - Dec 2020	Generator	CNP103	95	100	0	95	1	95	225	-55	3	-20	23	43
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	225	-55	3	-20	16	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	225	-55	3	-20	35	
			Concrete pump	CNP047	109	80	-1	108	1	108	225	-55	3	-20	36	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	225	-55	3	-20	27	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	225	-55	3	-20	25	
			Ventilation Fan	CNP241	108	90	0	108	1	108	225	-55	3	-15	40	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	225	-55	3	-20	13	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Feb 2022 - Nov 2022	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	225	-55	3	-20	16	47
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	225	-55	3	-20	35	
			Concrete pump	CNP047	109	80	-1	108	1	108	225	-55	3	-20	36	
			Generator	CNP103	95	100	0	95	2	98	225	-55	3	-20	26	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	225	-55	3	-20	27	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	225	-55	3	-20	28	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	225	-55	3	-20	25	
			Ventilation Fan	CNP241	108	90	0	108	4	114	225	-55	3	-15	47	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	4	91	225	-55	3	-20	19	
S49	Underpinning of Existing Bridges (under cover of traffic deck)	Feb 2021 - Nov 2021	Generator	CNP103	95	100	0	95	1	95	230	-55	3	-20	23	43
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	230	-55	3	-20	16	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	230	-55	3	-20	35	
			Concrete pump	CNP047	109	80	-1	108	1	108	230	-55	3	-20	36	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	230	-55	3	-20	27	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	230	-55	3	-20	25	
			Ventilation Fan	CNP241	108	90	0	108	1	108	230	-55	3	-15	40	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	1	85	230	-55	3	-20	13	
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Dec 2021 - May 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	180	-53	3	-5	55	60
			Concrete pump	CNP047	109	80	-1	108	1	108	180	-53	3	-10	48	
			Generator	CNP103	95	100	0	95	3	100	180	-53	3	-10	40	
			Lorry	CNP142	105	70	-2	103	2	106	180	-53	3	-5	51	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	180	-53	3	-5	48	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	180	-53	3	-10	53	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	180	-53	3	-5	45	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	180	-53	3	-5	53	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	180	-53	3	-5	48	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Nov 2022 - Jan 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	180	-53	3	-5	44	50
			Generator	CNP103	95	100	0	95	1	95	180	-53	3	-10	35	
			Lorry	CNP142	105	70	-2	103	1	103	180	-53	3	-5	48	
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Jul 2021 - Jul 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	215	-55	3	-5	53	59
			Concrete pump	CNP047	109	80	-1	108	1	108	215	-55	3	-10	46	
			Generator	CNP103	95	100	0	95	3	100	215	-55	3	-10	38	
			Lorry	CNP142	105	70	-2	103	2	106	215	-55	3	-5	50	
			Crane Mobile	BS D7-114	101	60	-2	99	3	104	215	-55	3	-5	47	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	215	-55	3	-10	51	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	215	-55	3	-5	44	
			Compactor, vibratory	CNP050	105	70	-2	103	3	108	215	-55	3	-5	52	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	215	-55	3	-5	47	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Jun 2022 - Oct 2022	Crane Mobile	BS D7-114	101	70	-2	99	1	99	215	-55	3	-5	43	48
			Generator	CNP103	95	100	0	95	1	95	215	-55	3	-10	33	
			Lorry	CNP142	105	70	-2	103	1	103	215	-55	3	-5	47	
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Aug 2022 - Oct 2022	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	56
			Concrete pump	CNP047	109	80	-1	108	1	108	250	-56	3	-10	45	
			Generator	CNP103	95	100	0	95	3	100	250	-56	3	-10	37	
			Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	
			Crane Mobile	BS D7-114	101	60	-2	99	2	102	250	-56	3	-5	44	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	250	-56	3	-10	50	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	250	-56	3	-5	43	
			Compactor, vibratory	CNP050	105	70	-2	103	2	106	250	-56	3	-5	49	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	250	-56	3	-5	45	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Apr 2023 - Sep 2023	Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	47
			Generator	CNP103	95	100	0	95	1	95	250	-56	3	-10	32	
			Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on-time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
S50d	Road works for re-align Ferry Street at-grade road	Oct 2023 - Dec 2023	Asphalt Paver	EPD-01126	104	80	-1	103	1	103	245	-56	3	-5	45	55
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	245	-56	3	-5	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	245	-56	3	-10	45	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	245	-56	3	-5	46	
			Generator	CNP103	103	100	0	103	1	103	245	-56	3	-10	40	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	245	-56	3	-10	38	
			Road Roller	EPD-01183	97	80	-1	96	1	96	245	-56	3	-5	38	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	1	110	245	-56	3	-10	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	245	-56	3	-5	40	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	245	-56	3	-5	42	
S51	Demolish the Existing Ferr Street Subway	Dec-20	Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	50	-3	107	1	107	200	-54	3	-5	51	55
			Dump Truck with Grab	CNP069	105	70	-2	103	2	106	200	-54	3	-5	50	
			Concrete crusher, excavator mounted	CNP055	103	80	-1	102	1	102	200	-54	3	-5	46	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	200	-54	3	-5	43	
			Saw, Wire	CNP205	101	70	-2	99	1	99	200	-54	3	-5	43	
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	May 2021 - Sep 2023	Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	235	-55	3	-20	15	49
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	235	-55	3	-20	37	
			Concrete pump	CNP047	109	80	-1	108	1	108	235	-55	3	-20	36	
			Generator	CNP103	95	100	0	95	3	100	235	-55	3	-20	27	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	235	-55	3	-20	27	
			Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	235	-55	3	-20	28	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	235	-55	3	-20	25	
			Ventilation Fan	CNP241	108	90	0	108	6	115	235	-55	3	-15	48	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	235	-55	3	-20	20	
	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Apr 2024	Compactor, vibratory	CNP050	105	70	-2	103	1	103	235	-55	3	-20	31	34
			Generator	CNP103	95	100	0	95	2	98	235	-55	3	-20	26	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	235	-55	3	-20	28	
			Road Roller	EPD-01183	97	80	-1	96	1	96	235	-55	3	-20	24	
S58	Construction of Temporary Maternal and Child Health Centre -	Apr 2018 - Jun 2018	Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	1	99	160	-52	3	-5	45	47
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	
	Construction of Temporary Maternal and Child Health Centre - Superstructure	Jul 2018 - Dec 2018	Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	160	-52	3	0	42	57
			Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	160	-52	3	-5	55	
			Concrete pump	CNP047	109	70	-2	107	1	107	160	-52	3	-10	48	
			Generator	CNP103	95	100	0	95	2	98	160	-52	3	-10	39	
			Crane Mobile	BS D7-114	101	50	-3	98	1	98	160	-52	3	-5	44	
			Saw, Circular Wood	BS D7-79	103	50	-3	100	2	103	160	-52	3	-5	49	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	160	-52	3	-5	43	

HY/2014/08

Associated Cumulative Noise Levels

W-P11

Worksite	Activity	2018												2019												2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post							56.1																													
S3	Construct Dwall and Traffic Deck - Diaphragm Walls								55.8	55.8	55.8	55.8																									
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls											54.0	54.0	54.0																							
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls														54.1																						
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck															52.0																					
S13a	Removal of Excavated Material through West End Portal																										59.1	59.1	59.1								
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post																							51.4														
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																								51.1	51.1	51.1	51.1	51.1								
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																												47.3								
S28	Diversion of Ferry Street Junction																			60.4	60.4	60.4															
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																							51.3													
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																							51.7													
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																								51.7	51.7	51.7	51.7								
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																												51.8								
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																												49.7								
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																				
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																				
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																				
S43	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S47a	Underpinning of Existing Bridges (under cover of traffic deck)																													42.8	42.8	42.8	42.8	42.8	42.8	42.8	
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																				
S49	Underpinning of Existing Bridges (under cover of traffic deck)																																				
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50d	Road works for re-align Ferry Street at-grade road																																				
S51	Demolish the Existing Ferr Street Subway																							55.0													
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																				
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)																																				
S58	Construction of Temporary Maternal and Child Health Centre - Foundation				47.2	47.2	47.2																														
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure							57.2	57.2	57.2	57.2	57.2	57.2																									
	Total SPL (YMTE only), dB(A)	-	-	-	47	47	47	60	60	60	60	61	59	54	54	52	-	-	-	60	60	60	-	56	54	54	60	60	60	52	43	43	43	43	43	57	52	43
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)	34 - 63																																			
	Total SPL (YMTW only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	69	71	71	72	72	74	74	74	75	74	74	74	73	73	73	75	75	75	72	72	72	72	73	73
	Cumulative SPL (YMTE+YMTW), dB(A)	-	-	-	47	47	47	60	60	60	60	61	59	54	69	71	71	72	72	74	74	74	75	74	74	74	73	73	73	75	75	75	72	72	72	72	73	73
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Worksite	Activity	2021												2022												2023											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post																																				
S3	Construct Dwall and Traffic Deck - Diaphragm Walls																																				
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls																																				
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																																				
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck																																				
S13a	Removal of Excavated Material through West End Portal																																				
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post																																				
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls																																				
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																																				
S28	Diversion of Ferry Street Junction																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																				
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																				
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																																				
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls																																				
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck																																				
S43	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																				
S47a	Underpinning of Existing Bridges (under cover of traffic deck)																																				
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																				
S49	Underpinning of Existing Bridges (under cover of traffic deck)																																				
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																				
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street																																				
S50d	Road works for re-align Ferry Street at-grade road																																				
S51	Demolish the Existing Ferr Street Subway																																				
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)																																				
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)																																				
S58	Construction of Temporary Maternal and Child Health Centre - Foundation																																				
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure																																				
	Total SPL (YMTE only), dB(A)	43	54	54	50	50	59	59	60	61	61	63	63	63	63	63	63	63	60	60	58	58	58	54	52	52	49	49	51	51	51	51	51	51	55	55	55
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)																																				
	Total SPL (YMTW only), dB(A)	73	73	73	73	73	73	71	71	71	70	70	70	70	70	70	70	71	71	71	71	71	71	71	73	73	73	73	73	73	73	73	73	73	73	73	73
	Cumulative SPL (YMTE+YMTW), dB(A)	73	73	73	73	73	73	71	71	71	70	71	71	71	71	71	71	71	71	71	71	71	71	71	73	73	73	73	73	73	73	73	73	73	73	73	73
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Worksite	Activity	2024											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
S3	Construct Dwall and Traffic Deck - Piling for King Post												
S3	Construct Dwall and Traffic Deck - Diaphragm Walls												
S3	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls												
S3	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls												
S3	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck												
S13a	Removal of Excavated Material through West End Portal												
S16a	Construct Middle Dwall and Traffic Deck - Piling for King Post												
S16a	Construct Middle Dwall and Traffic Deck - Diaphragm Walls												
S16a	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck												
S28	Diversion of Ferry Street Junction												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls												
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck												
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post												
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post												
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls												
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls												
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck												
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls												
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck												
S43	Excavation of Tunnel Tubes (under cover of traffic deck)												
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)												
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)												
S47a	Underpinning of Existing Bridges (under cover of traffic deck)												
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S49	Underpinning of Existing Bridges (under cover of traffic deck)												
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)												
S50a	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street												
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)												
S50b	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street												
S50c	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)												
S50c	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street												
S50d	Road works for re-align Ferry Street at-grade road												
S51	Demolish the Existing Ferr Street Subway												
S56a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)												
S56a	Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)												
S58	Construction of Temporary Maternal and Child Health Centre - Foundation												
S58	Construction of Temporary Maternal and Child Health Centre - Superstructure												
	Total SPL (YMTE only), dB(A)	34	34	34	34	-	-	-	-	-	-	-	-
	Corrected SPL (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Exceedance (YMTE only), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	Range (YMTE only), dB(A)												
	Total SPL (YMTW only), dB(A)	69	69	69	69	69	69	69	69	69	69	69	69
	Cumulative SPL (YMTE+YMTW), dB(A)	69	69	69	69	69	69	69	69	69	69	69	69
	Cumulative Exceedance (YMTE+YMTW), dB(A)	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

[1] For works that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Works located outside 300m boundary of the NSR are not assessed

[3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

[4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

Appendix D

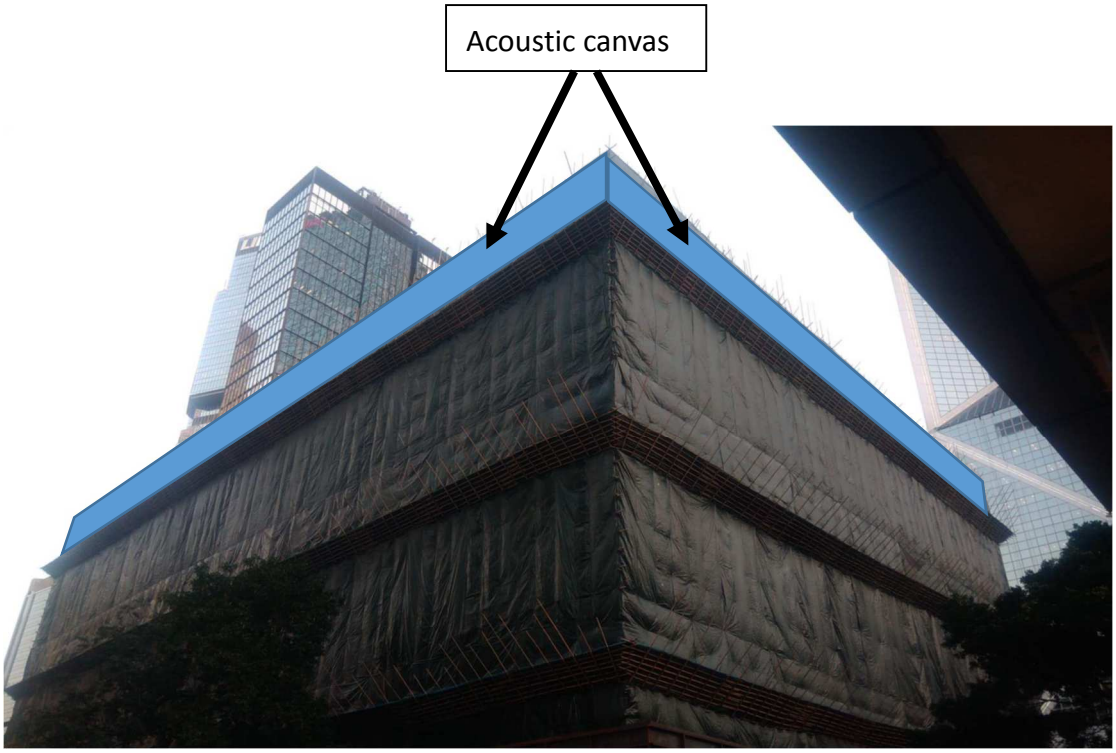
Distance between NSRs and Worksites

NSRs	S3	S4	S5	S6	S7	S8	S9	S13a	S16a	S16b	S17	S18	S25	S26	S27a	S27b	S28	S29	S30	S31	S32	S33	S34	S35	S36a	S36b	S37a	S37b	S39	S40	S41	S42	S43	S44	S45	S46a	S46b	S46c	S47a	S47b	S47c	S49	S50a	S50b	S50c	S50d	S51	S52	S53	S55a	S55b	S56a	S56b	S57	S58
W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)	300	>300	>300	>300	>300	>300	>300	300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300	>300
W-N8A Tak Cheong Building	250	70	19	45	85	80	135	250	55	22	75	135	32	45	31	100	160	140	85	70	55	8	32	135	32	50	23	90	120	29	15	40	135	55	30	155	60	13	120	45	14	125	225	205	170	185	225	85	40	50	35	75	15	75	260
W-N25A Prosperous Garden Block 1	110	120	135	170	180	205	285	110	80	160	170	245	120	165	80	210	85	45	70	50	95	150	190	265	115	205	80	230	75	130	165	130	45	85	130	65	80	155	45	95	155	40	75	55	16	25	65	65	115	75	175	50	135	205	160
W-P11 The Coronation (West Façade)	165	>300	>300	>300	>300	>300	>300	165	285	>300	>300	>300	>300	>300	>300	>300	150	215	>300	>300	295	>300	>300	>300	>300	>300	>300	>300	260	>300	>300	>300	210	>300	>300	195	275	>300	225	>300	>300	230	180	215	250	245	200	>300	>300	>300	>300	235	>300	>300	160

Appendix E

Details of Acoustic Noise Barriers for Demolition Works of YMT Yau Ma Tei Mulit-storey Carpark Building

Temporary noise barrier will be erected at the floor to be demolished surrounding the 4 sides of the building



Model No. CK2009	**High Tenacity Polyester PVC Laminated Fabrics**
General Applications:	Construction, Marine (Field) covers, Storage covers and many other applications
Colors:	Yellow, Sky Blue, Green, Orange, Dark Green, White, Grey
Available Grades:	Fire-Retardant, Ultra-Violet, Anti-Mildew, Anti-Cold, Sound Insulated
Type of Products:	Roll Type
Raw Material Origin:	From Japan
Flammability Test Method:	BS 5867-2 2008
Sizes:	2M x 6M, 2M x 30M(roll type)

Sample name(provided by sponsor): PVC Tarpaulin
Color: Gray
Mass per unit area : 958 g/m^2
Area, S, of test element : 3.8 m^2
Air temp. in the test rooms : 27°C
Relative humidity in the test rooms : 58%
Receiving room volume : 67.9 m^3

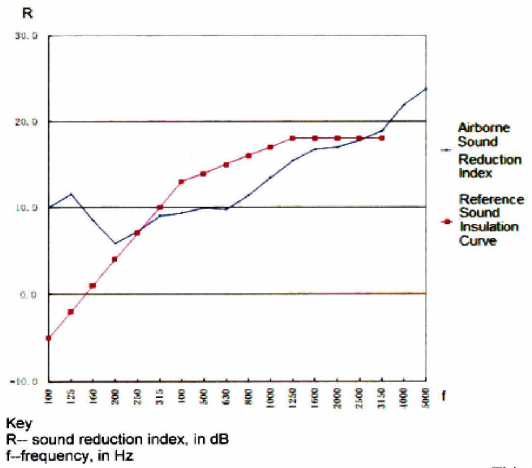
III. Test results

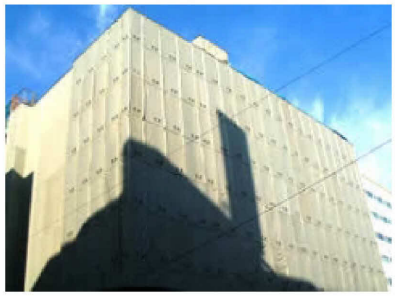
f Hz	R dB
100	10.1
125	11.6
160	8.6
200	5.9
250	7.3
315	9.1
400	9.4
500	10.0
630	9.9
800	11.5
1000	13.5
1250	15.5
1600	16.7
2000	17.0
2500	17.8
3150	18.9
4000	21.9
5000	23.9
Rw (C;Ctr)	**14(-1;-2)**

不變形 Dimensional Stability | 阻燃 Flame Retardant | 長壽命 Long Lasting | 抗紫外線 UV Resistant | 色牢度 Color Fastness | 隔音 Sound Insulation

Physical Properties:

Fabric Detail 網布規格	1000D x 1000D x 20 x22			
Item 項目名稱	Test Method 執行標準	Unit 單位	Value 數據	
Thickness 厚度	DIN53353	mm	1.0	
Total Weight 總重量	DIN53352	g/m2	1132.2	
Tensile Strength 拉伸強度	DIN53354	N/5cm	經 Warp	3040
			緯 Weft	2549
Elongation at Break 斷裂伸長率	DIN53354	%	經 Warp	17.3
			緯 Weft	23.3
Tear Strength 撕裂強度	DIN53363	N	經 Warp	448
			緯 Weft	374
Adhesion of Coating Strength 剝離負荷	DIN53357	N/5cm	經 Warp	123
			緯 Weft	108
Remarks 備註				





This technical data is offered as helpful suggestion only. It's accurate to the best of our knowledge at time of printing.

祥記帆布工程有限公司
Cheung Kee Canvas Ltd.

G/F., 352 Reclamation St., Kowloon, Hong Kong.
香港九龍新填地街 352 號地下
Tel: 2385 2644, 2780 7505 Fax: 2771 4599
url: http://www.ckcanvasltd.com email:contact@ckcanvasltd.com

Appendix F

Details of Acoustic Noise Enclosure or Barriers

Acoustics Innovation

SilentCUBE
Movable Noise Enclosure

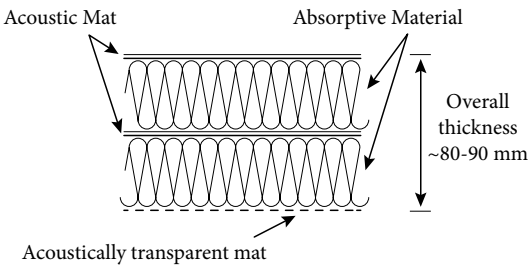
SilentCUBE is a movable noise enclosure for both indoor and outdoor use.

The lightweight design and user friendly installation mechanism enables contractors to quickly deploy and relocate SilentCUBE without using any specialized tools. Each CUBE can be seamlessly connected with another CUBE to accommodate larger machines.

SilentCUBE has been implemented in various construction sites, including:

- Night works conducted inside several MTR stations
- Road works at Tsuen Wan, Hoi Shing Road
- Concreting works for new office and education centre of Hong Kong Water Supplies Department in Tin Shui Wai

Section of Acoustic Panel



Product Specification

Modular Size (W) x (L)x (H)	1.5m x 1.5m x 2.2m 2m x 2m x 2.2m 2.5m x 2.5m x 2.2m
Modular Weight	~80kg
Insertion Loss*	18 dB(A)
Surface Density	3kg/m^2
Setup Time	10 mins by 4 people
Standard Colour	Grey

Ideal Solution for

- Hand-held Breaker
- Vibratory Poker
- Concrete Saw / Circular Saw, etc
- Hammering and other PCW

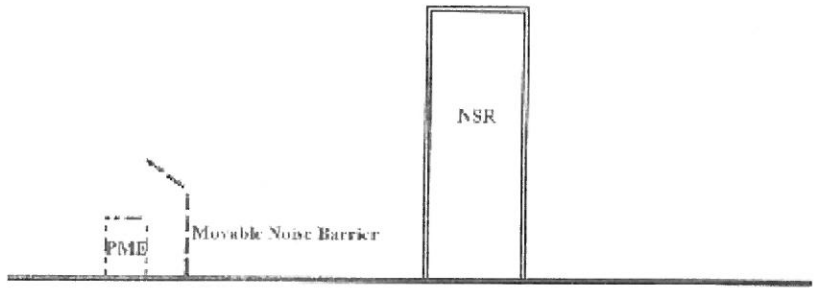
* Tested with white noise source

SilentCUBEs seamlessly connected with good gap sealing

aihk.hk
info@aihk.hk
(852) 2702-2007
R&D Division of Wilson Acoustics Limited

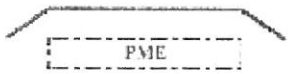
Shatin to Central Link
Works Contract 1108 – Kai Tak Station and Associated Tunnel

Section View of Movable Noise Barrier



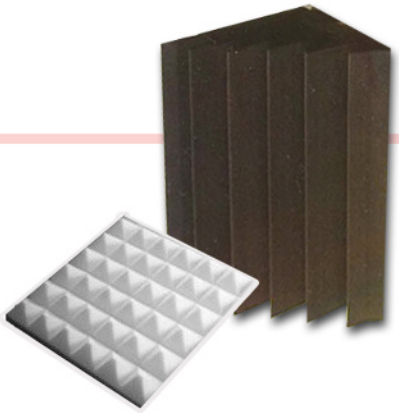
Movable noise barrier composed of minimum 50mm thick sound absorbing lining and 10mm thick plywood (or 1mm thick steel) backing with a cantilevered upper portion located within 5m from any static or mobile plant. PME will be totally screened when viewed from the NSR.

Plan View of Movable Noise Barrier



Static or mobile PME will be totally screened when viewed from the NSR.

吸音棉 SOUNDPROOF FOAM



吸音棉,學名爲阻燃聚氨酯聲學泡沫是一種新型吸聲材料，具有重量輕，耐潮，可切割成形，施工安裝方便等優點。在泡沫塑料的背面塗上萬能膠，可將泡沫塑料吸音棉直接在需要吸聲的地方，施工十分方便。

吸音棉被廣泛應用於建築聲學和噪聲控制工程中，例如：隔聲屏吸聲層，空調消聲器，廠房車間吸聲降噪以及影劇院、禮堂、廣播電視錄音播音室等工程中控制混響時間，音箱內的吸音及改善室內音質等等。

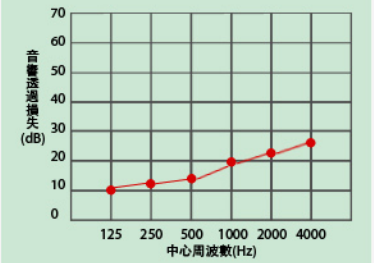
吸音棉具有獨特的構造，細微多孔隙能有效吸收衰減聲波的能量，波浪型和金字塔型吸音棉在中頻與高頻音(500Hz~2000Hz)之吸音效果甚佳。若是低頻音的處裡，則可選用三角柱體型，可將低頻做最大的降噪處理。

波浪型H25,H40,H50,H75 (經濟之選)

size: 1.5m x 2m

中心周波數 (Hz)	125	250	500	1000	2000	4000
音響透過損失 (dB)	10	12	15	20	25	28

● 音響透過損失

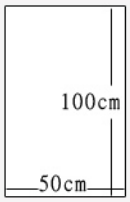


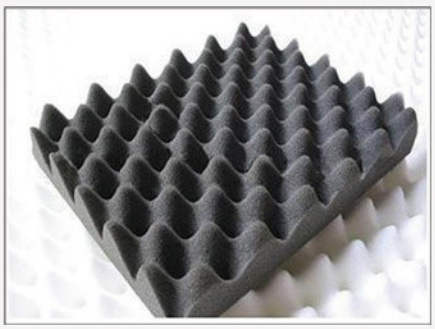
●厚度
2.5cm, 4.0cm, 5.0cm, 7.5cm

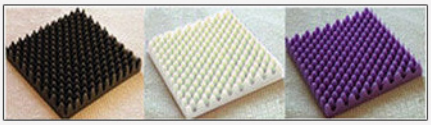
●規格
200cm X 100cm

●密度
16kg/m²

●顏色
黑色, 白色和紫色



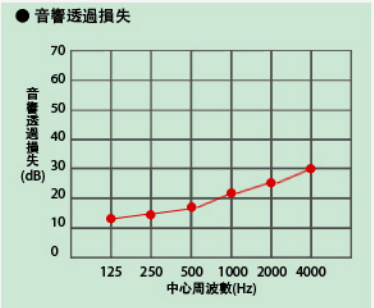




金字塔型T50,T75 (質量之選)

中心周波數 (Hz)	125	250	500	1000	2000	4000
音響透過損失 (dB)	12	15	18	22	27	30

● 音響透過損失

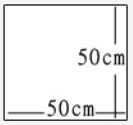


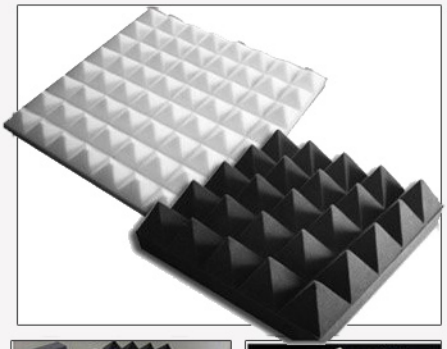
●厚度
5.0cm, 7.5cm

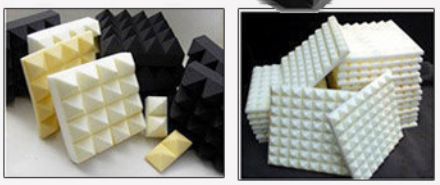
●規格
50cm X 50cm

●密度
18kg/m²

●顏色
黑色和白色



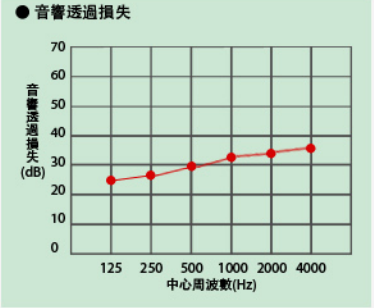




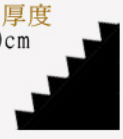
三角柱體型TR50 (重低音之選)

中心周波數 (Hz)	125	250	500	1000	2000	4000
音響透過損失 (dB)	25	28	30	32	34	36

● 音響透過損失



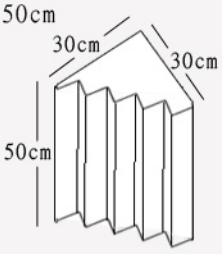
●厚度
30cm

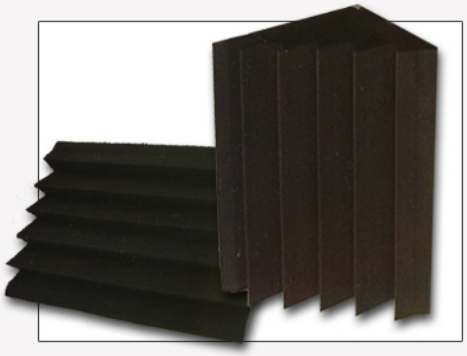


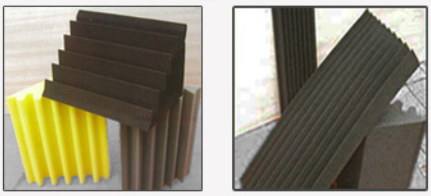
●規格
30cm x 30cm x 50cm

●密度
20kg/m²

●顏色
灰黑色







Soundproof Testing

of

Foam

CMA
2008000188Z

CAL
(2008)国认监认字(047)号

ilac-MRA CNAS
检 测
CNAS L0846

检 验 报 告

玻纤质检（WSW）字 第（1111875）号

副本

产品名称 波浪海棉

委托单位 [redacted]

检验类别 委托检验

国家玻璃纤维产品质量监督检验中心

二〇一一年十一月五日

国家玻璃纤维产品质量监督检验中心

检　验　报　告

玻纤质检（WSW）字　第（1111875）号　共 2 页　第 1 页

产品名称	隔音毡	规格型号	Vinco-2.0
商　　标	坤耐	样品状态	海棉制品
委托单位	[redacted]	检验类别	委托检验
生产单位	[redacted]	样品等级	----
抽样地点	----	送样日期	2011年11月29日
样品数量	约（300×300）mm，2块	送 样 者	[redacted]
抽样基数	----	生产日期	----
检验依据	试验方法详见附页	检验项目	隔声量
检验结论	样品经检验，隔声量测定值详见附页（第2页）。 声明：本检验结论仅对来样负技术责任。 （检验报告专用章） 2011年12月05日		
备注			

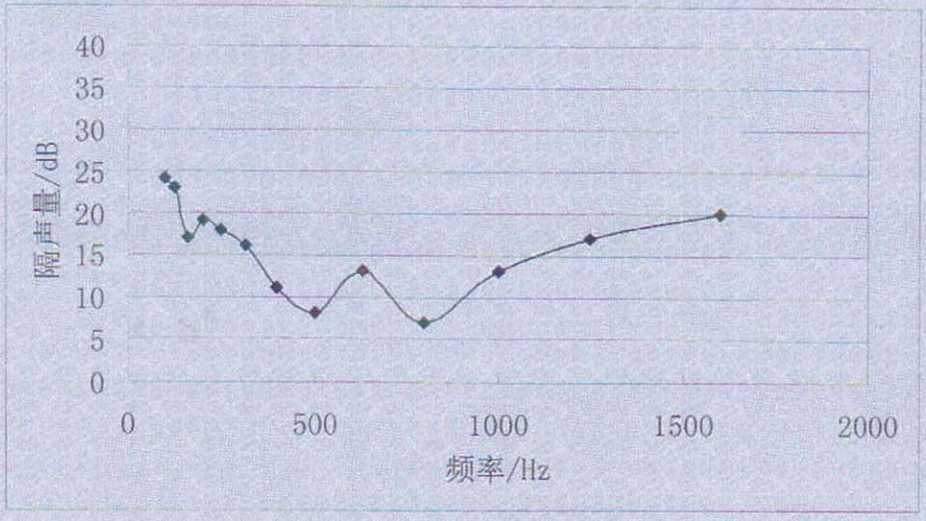
批准：　　审核：

国家玻璃纤维产品质量监督检验中心

检 验 报 告 附 页

玻纤质检（WSW）字 第（1111875）号 共2页 第2页

检验项目		试验方法	测定值
隔声量 dB	100Hz	阻抗管法	24
	125Hz		23
	160Hz		17
	200Hz		19
	250Hz		18
	315Hz		16
	400 Hz		11
	500 Hz		8
	630 Hz		13
	800 Hz		6
	1000 Hz		13
	1250 Hz		16
	1600 Hz		20



编 制：

Smouldering & Flammability Test of Foam

STC Test Report

Date: 2009-09-16

No: HT196402

Description of Sample(s) : Two (2) groups submitted sample in black colour said to be
(A) SPONGE
Size: 12 inch x 3 inch x ½ inch (20pcs)
(B) SPONGE
Size: 8 inch x 7 ½ inch x 2 inch (6pcs)
8 inch x 4 inch x 2 inch (6pcs)
Country of Destination: U.S.A

Date sample(s) Received : (A) 2009-08-11
(B) 2009-09-11

Date Tested : (A) 2009-08-11 to 2009-08-17
(B) 2009-09-11 to 2009-09-16

Investigation Requested : Selected test(s) as detailed herein.

Conclusion(s) :
1. The submitted sample A complied with CAL TB 117:2000 Section D Part II.
2. The submitted sample B complied with CAL TB 117: 2000 Section A Part I.

This Test Result of Sample A refers to our previous Test Report, HT196092 issued on 2009-08-17.

CHENG Chun-yiu, David
Authorized Signatory
Textile and Materials Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

STC Test Report

Date: 2009-09-16

No: HT196402

TEST RESULTS:

1. Smouldering Screening Test

Ref. California Technical Bulletin No. 117-2000, Section D, Part II, Resilient Cellular Materials

Test Method

The apparatus and methods of testing were those described in California Technical Bulletin No. 117, Section D, Part II, for testing the smouldering tendency of resilient cellular materials used in upholstered furniture.

Test Results: Sample A

Trial	Percentage (%) of non-smouldered residue	Comment
1	99.9	Pass
2	99.9	
3	99.9	
Average	99.9	
Requirement:	All test specimens greater than 80% non-smouldered residue.	

2. Flammability Test

Ref. California Technical Bulletin No. 117-2000, Section A, Part I, Resilient Cellular Materials

Test Method

The apparatus and methods of testing were those described in California Technical Bulletin No. 117, Section A, Part I, for testing the flame retardancy of resilient cellular materials used in upholstered furniture.

Test Results: Sample B

Before Aging			
Specimen	After flame time (nearest 0.1 second)	Char length (nearest 0.1 inch)	After glow time (nearest 0.1 second)
1	Nil	1.6	Nil
2	Nil	2.1	Nil
3	Nil	2.6	Nil
4	Nil	1.7	Nil
5	Nil	2.1	Nil
Average	Nil	2.0	Nil
Requirement			
Individual Average	≤ 10 seconds ≤5 seconds	≤ 8 inches ≤6 inches	/ ≤ 15 seconds

STC Test Report

Date: 2009-09-16

No: HT196402

TEST RESULTS:

After Aging			
Specimen	After flame time (nearest 0.1 second)	Char length (nearest 0.1 inch)	After glow time (nearest 0.1 second)
1	Nil	1.5	Nil
2	Nil	2.3	Nil
3	Nil	1.6	Nil
4	Nil	1.9	Nil
5	Nil	2.3	Nil
Average	Nil	1.9	Nil
Requirement			
Individual Average	≤ 10 seconds ≤5 seconds	≤ 8 inches ≤6 inches	/ ≤ 15 seconds

Comment : Pass

********* End of Test Report *********

Hong Kong Job Reference

of

Foam

綽基建築科技有限公司
Tracki Building Technology Ltd

Job Reference

Soundproof Foam

Liantang/Heung Yuen Wai
Boundary Control Point
site formation and infrastructure works
- Contract 5 CV/2012/09

Chun wo C&E Company Ltd

Residential Development
RBL 1190, No v 8-12
Deep Water Bay Drive

K. H. Foundations Ltd

香港沙田安麗街18號達利廣場25樓2501室 Tel : 2787 3098 Fax : 2396 9990
2501, 25/F, Te chnology Park, 18 On Lai Street, Shatin, Hong Kong

Appendix G

Implementation Schedule of Proposed Mitigation Measures

Implementation Schedule of Mitigation Measures

CNMMP/ EIA Ref.	Proposed Mitigation Measures	Target PME	Implemented by	Location	Period	Requirements or Standard to be achieved
Paragraph 2, S3.2 of CNMMP	Movable temporary noise barriers	Asphalt paver, excavator etc.	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO
Paragraph 2, S3.2 of CNMMP	Noise enclosure	Air compressor, generator	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO
Paragraph 2, S3.2 of CNMMP	Traffic decking over construction site	All PME to be operated under traffic deck	Main Contractor	Areas involving excavation of cut and cover tunnel	Mar 2019 - Dec 2023	Annex 5, TM-EIAO
Paragraph 2, S3.2 of CNMMP	Noise barrier for building demolition	Crusher, breakers etc.	Main Contractor	Yau Ma Tei Mulit-storey Carpark Building	Nov 2020 – Apr 2021 & May 2022 – Jul 2022	Annex 5, TM-EIAO

CNMMP/ EIA Ref.	Proposed Mitigation Measures	Target PME	Implemented by	Location	Period	Requirements or Standard to be achieved
S5.4.1 of EIA report	Implement the following good site practices: ● Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme ● Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; ● Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; ● Silencers or mufflers on construction equipment should	All PME	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO

	be properly fitted and maintained during the construction works; ● Mobile plant should be sited as far away from NSRs as possible and practicable; ● Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.					
S5.4.1 of EIA report	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	All PME	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO
S5.4.1 of EIA report	Use 'Quiet plant'	Refer to Table 2.2	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO
S5.4.1 of EIA report	Sequencing operation of construction plants where practicable	All PME	Main Contractor	All areas in CKR-YMTE	Apr 2018 – Nov 2024	Annex 5, TM-EIAO
S5.4.1 of EIA report	Implement a noise monitoring programme under EM&A programme	All PME	Main Contractor	Noise Sensitive Receivers	Apr 2018 – Nov 2024	Annex 5, TM-EIAO